

**Guide to the Federal Reserve's
Payment System Risk Policy
on Intraday Credit**

Updated to reflect policy revisions effective March 24, 2011

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Table of Contents

Preface	1
I. Introduction	2
A. Policy History	2
B. Overview of the PSR Policy	5
II. Daylight Overdraft Capacity	8
A. Net Debit Caps	8
B. Cap Categories	9
1. <i>Zero</i>	9
2. <i>Exempt-from-filing</i>	10
3. <i>De minimis</i>	10
4. <i>Self-assessed</i>	11
C. Maximum Daylight Overdraft Capacity	11
1. <i>General procedure</i>	12
2. <i>Streamlined procedure for certain FBOs</i>	12
3. <i>Determination of the max cap amount under general and streamlined procedures</i> ..	13
4. <i>Collateral pledged for max cap purposes</i>	13
5. <i>Examples of Maximum Daylight Overdraft Capacity</i>	14
D. Role of an Institution’s Board of Directors	15
E. Cap Resolutions	16
F. Confidentiality of Cap Information	17
III. Collateral	19
A. Collateral Eligibility	20
B. Collateral Valuation	20
1. <i>Securities valuation</i>	20
2. <i>Loan valuation</i>	20
3. <i>Collateral margins</i>	21
C. Pledging Collateral	21
1. <i>Fedwire Securities Service (FSS)</i>	22
2. <i>Depository Trust Company (DTC)</i>	22
3. <i>Third-Party Custody Pledging Arrangement</i>	22
4. <i>Borrower-in-Custody of Collateral (BIC) Arrangement</i>	23
5. <i>Foreign Depositories</i>	23
6. <i>Reserve Bank Custody</i>	24
7. <i>In-transit Securities</i>	24
D. Withdrawing Collateral	24
1. <i>Fedwire Securities Service (FSS)</i>	25
2. <i>Depository Trust Company (DTC)</i>	25
3. <i>Custodians, BIC Arrangements, and Reserve Bank Custody</i>	25
4. <i>Foreign Depositories</i>	25
E. Collateralized Daylight Overdrafts	26
1. <i>Eligibility for zero-priced collateralized daylight overdrafts</i>	26
2. <i>Collateral available for daylight overdraft purposes</i>	26
F. Reserve Bank PSR Collateral Requirements	27
G. Collateral Monitoring	28

1. <i>Intraday monitoring</i>	28
2. <i>Ex post monitoring</i>	28
IV. Daylight Overdraft Monitoring and Management	30
A. Daylight Overdraft Measurement	30
B. Monitoring Compliance with the PSR Policy	30
1. <i>Consequences of policy violations</i>	32
C. Real-time Monitoring and the Account Balance Monitoring System (ABMS)	32
D. Ex post Monitoring	34
V. Daylight Overdraft Fees	36
A. Calculation of Daylight Overdraft Charges	36
B. Example of Daylight Overdraft Charge Calculation	36
1. <i>Calculation of end-of-minute uncollateralized daylight overdraft</i>	37
2. <i>Calculation of daily daylight overdraft charge</i>	37
3. <i>Calculation of reserve maintenance period charge and application of fee waiver</i>	37
C. Billing and Adjustments	39
1. <i>Assessment of charges</i>	39
D. Institutions Subject to Daylight Overdraft Penalty Fees	39
VI. Special Situations	40
A. U.S. Branches and Agencies of Foreign Banks	40
1. <i>U.S. capital equivalency</i>	40
2. <i>Allocation of caps</i>	41
B. Industrial Banks and Industrial Loan Companies Subject to the BHCA Exception .	42
C. Institutions Subject to Daylight Overdraft Penalty Fees	43
1. <i>Edge Act and agreement corporations</i>	43
2. <i>Bankers' banks</i>	44
3. <i>Limited-purpose trust companies</i>	44
4. <i>Government-sponsored enterprises (GSEs) and international organizations</i>	44
VII. Self-Assessment Procedures	45
A. Creditworthiness Component	45
B. Intraday Funds Management and Control	50
C. Customer Credit Policies and Controls	52
D. Operating Controls and Contingency Procedures	56
E. Overall Self-Assessment Rating	59
Appendix A: Self-Assessment Worksheets	60
Appendix B: Sample Letters and Resolutions	92
Appendix C: Capital Measures	100
Glossary	103

Preface

The *Guide to the Federal Reserve's Payment System Risk Policy on Intraday Credit* was developed to assist depository institutions in complying with the Federal Reserve Policy on Payment System Risk (PSR policy).¹ The Board adopted the PSR policy to address the risks that payment and settlement activity present to the financial system and to the Federal Reserve Banks (Reserve Banks).

The guide contains detailed information on the steps necessary for depository institutions to comply with the Federal Reserve's policies on intraday credit (part II of the PSR policy). Any institution using Federal Reserve intraday credit, regardless of the amount, should monitor its Federal Reserve account balance on an intraday basis and should understand the risks and costs inherent in the provision of payment services generally.

Users of the guide should be aware that the information it contains is based on the PSR policy effective at the time of publication. If the Board modifies the PSR policy, the revised policy will supersede information in the guide until it can be updated accordingly.

¹ Available at http://www.federalreserve.gov/paymentsystems/psr_policy.htm.

I. Introduction

The Federal Reserve Board (the Board) developed the PSR policy to address the risks that payment systems present to the Federal Reserve Banks, to the banking system, and to other sectors of the economy. The Board's intraday credit policy objective is to attain an efficient balance among the costs and risks associated with the provision of Federal Reserve intraday credit, including the comprehensive costs and risks to the private sector of managing Federal Reserve account balances, and the benefits of intraday liquidity.

An integral component of the PSR policy is a program to govern depository institutions' use of intraday Federal Reserve credit, or "daylight overdrafts," which is the primary focus of this document.² A daylight overdraft occurs when an institution's Federal Reserve account is in a negative position at any point during the business day.

A. Policy History

The Federal Reserve first published a policy on risks in large-dollar payment systems in 1985.³ This policy required all institutions incurring daylight overdrafts in their Federal Reserve accounts as a result of Fedwire® funds transfers to establish a maximum limit, or net debit cap, on those overdrafts.⁴

In subsequent years, the Federal Reserve expanded the original PSR policy by addressing risk controls for other payment types, including automated clearinghouse (ACH) transfers and book-entry securities transfers.⁵ The PSR policy also has been expanded to address risk controls for other payment systems, including large-dollar multilateral netting systems and certain private securities clearing and settlement systems.⁶ In addition, the Federal Reserve made several modifications to the original PSR program that include reductions to net debit cap levels, the creation of an exempt status for institutions that incur only minimal daylight overdrafts, and changes to the calculation of foreign banks' U.S. capital equivalency.⁷

In 1994, the Board began assessing a fee of 24 basis points for an institution's average daily overdrafts in excess of a deductible of 10 percent of the institution's risk-based capital.⁸ The purpose of the fee was to induce behavior that would reduce risk and increase efficiency in the payment system. At the same time, to facilitate the pricing of daylight overdrafts, the Board modified its method of measuring daylight overdrafts to reflect better the timing of transactions

² In the PSR policy, the term "institution" refers to entities defined as "depository institutions" in 12 U.S.C. 461(b)(1)(A), U.S. branches and agencies of foreign banking organizations, Edge Act and agreement corporations, bankers' banks that have not waived their exemption from reserve requirements, limited-purpose trust companies, government-sponsored enterprises, and international organizations, unless the context indicates a different reading.

³ See 50 FR 21120, May 22, 1985.

⁴ The Fedwire Funds Service is a large-dollar electronic payment system owned and operated by the Federal Reserve Banks.

"Fedwire" is a registered service mark of the Federal Reserve Banks. A complete list of marks owned by the Federal Reserve Banks is available at FRBservices.org.

⁵ See 52 FR 29255, August 6, 1987.

⁶ See 54 FR 26104, June 21, 1989.

⁷ See 55 FR 22092, May 31, 1990.

⁸ See 57 FR 47084, October 14, 1992.

affecting an institution's intraday Federal Reserve account balance.⁹ This measurement method incorporates specific account posting times for different types of transactions.

In 1995, the Board raised the daylight overdraft fee to 36 basis points.¹⁰ Because aggregate daylight overdrafts fell approximately 40 percent after the initial introduction of fees, the Board did not raise the fee further as was initially contemplated because it was concerned that further increases could produce market effects contrary to the objectives of the risk-control program. The Board believed, however, that an increase in the overdraft fee was needed to provide additional incentives for institutions to reduce overdrafts related to funds transfers. The Board stated it would evaluate further fee increases two years after it could assess the effects of the 1995 fee increase.

In 2000, recognizing its obligation to review fees and to consider changes that had occurred in the banking, payment, and regulatory environment, the Board conducted a broad review of the Federal Reserve's intraday credit policies. The Board determined that these policies appeared to be generally effective in controlling risk to the Federal Reserve and in creating incentives for institutions to manage their intraday credit exposures. While the Board found that the policy was generally effective, it identified growing liquidity pressures among certain payment system participants. Specifically, the Board learned that a small number of financially healthy institutions regularly found their net debit caps to be constraining, causing them to delay sending payments and, in some cases, to turn away business.

The Board's broad review of its intraday credit policies culminated in its 2001 approval of a policy that allows certain institutions to pledge collateral to their Administrative Reserve Bank (ARB) to secure daylight overdraft capacity in excess of their net debit caps, subject to Reserve Bank approval.¹¹ The net debit cap plus the additional capacity is referred to as the "maximum daylight overdraft capacity" or "max cap." This policy also contained changes to the calculation of net debit caps for U.S. branches and agencies of foreign banks to allow certain foreign banks to access increased amounts of intraday credit.

In 2004, the Board announced two policy revisions pertaining to government-sponsored enterprises (GSEs) and certain international organizations.¹² At that time, Reserve Banks processed and posted interest and redemption payments on securities issued by these entities by

⁹ Before the Board's modification of the daylight overdraft posting rules, Fedwire funds and securities transfers were posted to institutions' Federal Reserve accounts as they were processed during the business day (as they still are today). The net of all Automated Clearing House (ACH) transactions was posted as if the transactions occurred at the opening of business, regardless of whether the net was a debit or credit balance. All other or "nonwire" activity was netted at the end of the business day, and if the net balance was a credit, the credit amount was added to the opening balance. If the net balance was a debit, the debit amount was deducted from the closing balance. Under this method, an institution could use all of its nonwire net credits to offset any Fedwire funds or securities debits during the day but postpone the need to cover nonwire net debits until the close of the day.

See 57 FR 47093, October 14, 1992.

¹⁰ See 60 FR 12559, March 7, 1995.

¹¹ The Administrative Reserve Bank is responsible for the administration of Federal Reserve credit, reserves, and risk-management policies for a given depository institution or other legal entity.

See 66 FR 64419, December 13, 2001.

¹² See 69 FR 57917, September 28, 2004.

9:15 a.m. eastern time each day, even if the issuer had not fully funded its payments.¹³ Effective July, 2006, the Reserve Banks release interest and redemption payments on securities issued by GSEs and certain international organizations only when the issuer's Reserve Bank account contains sufficient funds to cover the payments. This policy change aligned the treatment of GSEs and international organizations with other account holders that do not have regular access to the discount window by applying penalty fees to any daylight overdrafts these institutions incur.

In 2004, the Board approved changes to the PSR policy, addressing risk management in payment and securities settlement systems. The Board adopted the *Core Principles for Systemically Important Payment Systems* (Core Principles) and the *Recommendations for Securities Settlement Systems* (RSSS) as the minimum standards for systemically important payment and securities settlement systems, respectively.¹⁴ At the same time, the Board revised its general risk-management expectations for all systems subject to the policy, including Federal Reserve payment and securities settlement systems such as the Fedwire Funds Service and FedACH®.¹⁵ The action also modified the introduction to the policy, reordered the first two sections of the policy, and deleted the third section of the policy, which contained guidance on the use of rollovers and continuing contracts in the federal funds market. The Board determined that institutions have the appropriate incentives to incorporate the guidance into their intraday credit procedures and that specific guidance is no longer necessary.

In 2007, the Board approved changes to part I of the PSR policy that revised the expectations for systemically important payment and settlement systems subject to the policy and updated and clarified the policy with regard to central counterparties.¹⁶ Under the revised policy, the Board adopted the *Recommendations for Central Counterparties* (RCCP) and set an expectation that systemically important payment and settlement systems subject to the Board's authority periodically complete and disclose publicly self-assessments against the relevant principles and minimum standards set forth in the policy.

In 2008, the Board adopted major revisions to part II of the PSR policy designed to improve intraday liquidity management and payment flows for the banking system, while also helping to mitigate the credit exposures of the Federal Reserve Banks.¹⁷ The changes include a new approach that explicitly recognizes the role of the central bank in providing intraday balances and credit to healthy depository institutions, a zero fee for collateralized daylight overdrafts, a 50 basis point (annual rate) charge for uncollateralized daylight overdrafts, and a biweekly daylight overdraft fee waiver of \$150. In addition, the Board adopted changes to other elements of the PSR policy dealing with daylight overdrafts, including adjusting net debit caps,

¹³ All times noted in this document are in Eastern Time.

¹⁴ See 69 FR 69926, December 1, 2004.

¹⁵ "FedACH" is a registered service mark of the Federal Reserve Banks. A complete list of marks owned by the Federal Reserve Banks is available at FRBservices.org.

¹⁶ See 72 FR 2518, January 19, 2007.

¹⁷ See 73 FR 79109, December 24, 2008.

eliminating the current deductible for daylight overdraft fees, and increasing the penalty daylight overdraft fee to 150 basis points (annual rate). The changes became effective March 24, 2011.¹⁸

B. Overview of the PSR Policy

The PSR policy aims 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.¹⁹

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. The PSR policy is designed to fulfill that aim 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 payment and settlement systems, and (3) establishing the policy conditions governing the provision of Federal Reserve intraday credit to account holders.²⁰

Part I of the PSR policy sets out the Board's views, related principles, and minimum standards for managing risks in payment and settlement systems, including those operated by the Reserve Banks that expect to settle a daily aggregate gross value exceeding \$5 billion on any day during the next twelve months.²¹

The policy requires systems within the scope of the policy to implement a risk-management framework appropriate for the risks a system poses to the system operator, system participants, and other relevant parties, as well as the financial system more broadly. In particular, the policy requires that a risk-management framework (1) clearly identify risks and set sound risk-management objectives, (2) establish sound governance arrangements, (3) establish clear and appropriate rules and procedures, and (4) employ the resources necessary to achieve the system's risk-management objectives and

¹⁸ See 75 FR 60749, October 1, 2010.

¹⁹ For the Board's long-standing objectives in the payment system, see "The Federal Reserve in the Payments System," September 2001, FRRS 9-1550.

²⁰ Basic risks in the payment and settlement systems are credit risk, liquidity risk, operational risk and legal risk. The Board's PSR 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.

²¹ For purposes of the policy, a payments or securities settlement system is considered to be a multilateral arrangement (three or more participants) among financial institutions for the purpose of clearing, netting, and/or settling payments, securities, or other transactions among themselves or between each of them and a central party, such as a system operator or central counterparty. 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.

implement effectively its rules and procedures. In addition, the policy requires that systems deemed systemically important by the Board comply with more-detailed risk-management standards set out in the policy. The policy also encourages systems not within the scope of the policy to consider implementing some or all of the policy's elements of a sound risk-management framework.

The Board will be guided by this policy in conjunction with relevant laws and other Federal Reserve policies, when (1) supervising state member banks, bank holding companies, and clearinghouse arrangements, including the exercise of authority under the Bank Service Company Act, where applicable, (2) setting the terms and conditions for the use of Federal Reserve payment and settlement services by system operators and participants, (3) developing and applying policies for the provision of intraday credit to Reserve Bank account holders, and (4) interacting with other domestic and foreign financial system authorities on payments and settlement risk-management issues. In particular, the policy states the Board's intention to work with other domestic and foreign financial system authorities to promote effective risk management in payments and securities settlement systems.

Part II of this policy governs the provision of 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. The Reserve Banks provide temporary, intraday credit to healthy depository institutions, predominantly through collateralized daylight overdrafts.

The Reserve Banks face credit risk should institutions be unable to fund their daylight overdraft position in their Federal Reserve accounts before the end of the day. If an institution were to fail after sending a funds transfer, for example, that left its account in an overdraft position, the Federal Reserve would be obligated to cover the payment and bear any resulting losses. The Federal Reserve's exposure in such instances could be significant. Aggregate daylight overdraft data are available at http://www.federalreserve.gov/paymentsystems/psr_data.htm.

The PSR policy enables Reserve Banks to control their exposure to credit risk in four ways. First, institutions that access intraday credit must satisfy safety and soundness requirements. In general, institutions that do not meet safety and soundness requirements are not given access to intraday credit. Lending to healthy institutions reduces the risk of loss to the Reserve Banks because these institutions do not pose a high risk of an intraday failure. Second, the PSR policy establishes limits on the amount of Federal Reserve intraday credit that an institution may use. These limits are sufficiently flexible to reflect the overall financial condition and operational capacity of each institution using Federal Reserve payment services. Third, the policy permits Reserve Banks to protect themselves from risk exposure of individual institutions through such measures as actively monitoring and restricting account activity, removing intraday capacity, or imposing collateral requirements. Fourth, the policy provides incentives for institutions with regular access to the discount window to pledge collateral voluntarily to secure daylight overdrafts. Institutions with regular access to the discount window that secure their use of intraday credit with collateral are not charged for their fully collateralized daylight overdrafts.

Because the Board continues to recognize explicitly the risks inherent in the provision of intraday credit, institutions that incur uncollateralized overdrafts will be charged a fee. In applying this fee, the Board anticipates that over time, institutions will elect to pledge collateral to secure daylight overdrafts rather than incur fees for their use of intraday credit.

The Board expects institutions to manage their Federal Reserve accounts and to not exceed their intraday credit limits.

II. Daylight Overdraft Capacity

A daylight overdraft results when an institution has insufficient funds in its Federal Reserve account to cover its settlement obligations stemming from funds or book-entry securities transfers or from other payment activity processed by the Federal Reserve, such as check, National Settlement Service (NSS), or Automated Clearing House (ACH) transactions. The Federal Reserve measures daylight overdrafts in institutions' Federal Reserve accounts to determine an institution's compliance with the PSR policy and to calculate daylight overdraft fees.

Under the Federal Reserve's PSR policy, each institution that maintains an account at a Federal Reserve Bank is assigned or may establish a net debit cap, which limits the amount of intraday Federal Reserve credit that the institution may use during a given interval. The policy allows financially healthy institutions that are eligible to have regular access to the discount window to incur daylight overdrafts in their Federal Reserve accounts up to their individual net debit caps.²² In addition, the policy allows certain institutions to pledge collateral to the Federal Reserve to access daylight overdraft capacity above their net debit caps. In these instances, the institution can incur daylight overdrafts up to the value of its net debit cap plus any applicable collateralized capacity authorized by the Reserve Bank. As discussed in Section V of this Guide, institutions that are eligible for regular access to the discount window are only charged for uncollateralized daylight overdrafts. With the exception of institutions that apply for and are granted a max cap by their Reserve Bank as discussed in Part C of this section, the amount of collateral pledged does not impact the amount of an institution's net debit cap.

This section discusses the steps involved in establishing a net debit cap, the process for applying for additional daylight overdraft capacity, the responsibilities of an institution's board of directors, the procedures for filing a net debit cap resolution, and the role of regulatory agencies. Institutions considered "special situations" should consult section VI of this manual for more information on net debit caps.²³

A. Net Debit Caps

An institution's net debit cap refers to the maximum dollar amount of daylight overdrafts that it may incur in its Federal Reserve account. An institution's cap category and its capital measure determine the dollar amount of its net debit cap.²⁴ An institution's net debit cap is calculated as its cap multiple times its capital measure:

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

²² Institutions that have regular access to the discount window are those institutions that are eligible to borrow from the discount window under normal operating conditions.

²³ Institutions considered "special situations" include U.S. branches and agencies of foreign banks, nonbank banks, industrial banks, GSEs, certain international organizations, and other institutions that lack regular access to the discount window.

²⁴ Information on capital measures for different types of institutions and related regulatory reports is provided in appendix C.

Because an institution's net debit cap is a function of its capital measure, the dollar amount of the cap will vary over time as the institution's capital measure changes. An institution's cap category, however, normally does not change within a one-year period.

The policy defines six cap categories: zero, exempt-from-filing, de minimis, average, above average, and high. Each cap category is associated with a cap multiple, as shown in table II-1 below.

Table II-1
Cap Multiple Table

Cap Categories	Cap Multiples
Zero	0.0
Exempt-from-filing*	\$10 million/0.20
De minimis	0.40
Average	1.125
Above average	1.875
High	2.25
*The net debit cap for the exempt-from-filing category is equal to the lesser of \$10 million or 0.2 multiplied by a capital measure.	

B. Cap Categories

An institution can establish a positive net debit cap by submitting to its Reserve Bank at least once a year a copy of its board of directors' resolution, or it can be assigned a cap category by its Reserve Bank. Generally, only those institutions that regularly incur daylight overdrafts greater than \$10 million or 20 percent of their capital measure are required to file an annual board of directors' cap resolution. Institutions that do not file cap resolutions are assigned either an exempt-from-filing or a zero cap category. The Reserve Bank will notify the institution if it qualifies for an exempt-from-filing cap. If an institution has any questions regarding its cap, the institution should contact its Reserve Bank.

1. Zero

An institution with a net debit cap of zero may not incur daylight overdrafts in its Federal Reserve account. Some institutions have established management policies that prohibit daylight overdrafts. Such institutions may adopt a voluntary zero cap but are not required to do so by Federal Reserve policy. An institution may adopt a zero cap by sending a letter to its Reserve Bank. The zero cap will remain in effect until the institution files a cap resolution for a different cap category or until the institution requests an exempt-from-filing cap.

In other cases, a Reserve Bank may assign an institution a zero cap. Institutions that may pose special risks to the Federal Reserve, such as those that are not eligible for regular access to

the discount window, those incurring daylight overdrafts in violation of the Federal Reserve's PSR policy, or those in weak financial condition, are generally assigned a zero cap. Recently chartered institutions may also be assigned a zero cap. An institution that has been assigned a zero cap as a result of recurring daylight overdrafts in excess of its cap may be assigned a higher cap if the institution corrects its recurring overdrafts and is considered to be in healthy financial condition. An institution seeking to be assigned to a cap category that requires the approval of its board of directors (de minimis or self-assessed) should confirm its eligibility with the Reserve Bank before proceeding to obtain approval from its board of directors.

2. Exempt-from-filing

The exempt-from-filing category permits an institution to incur daylight overdrafts up to the lesser of \$10 million or 20 percent of its capital measure. If a Reserve Bank determines that an institution is eligible for exempt status, it will assign this category without requiring any additional documentation. As a result, the exempt-from-filing cap category substantially reduces the administrative burden associated with obtaining a net debit cap. The majority of institutions that maintain Federal Reserve accounts are in the exempt-from-filing category.

To be eligible for the exempt-from-filing cap category, an institution must be in healthy financial condition and should use only minimal amounts of Federal Reserve intraday credit. Specifically, an institution's daylight overdraft history should show only rare overdrafts of more than \$10 million or 20 percent of its capital measure, whichever amount is smaller. Any overdrafts above this limit should occur no more than twice in a four-week period (two consecutive two-week reserve maintenance periods). An institution may contact its Reserve Bank for verification that it has been granted or is eligible for the exempt status.

An institution with a new Federal Reserve account may be eligible for exempt status if it is considered to be in healthy financial condition. Furthermore, if an institution with an exempt-from-filing cap category later determines that it requires more daylight overdraft capacity, it may file a cap resolution for a higher net debit cap. Institutions in the exempt-from-filing cap category are not required to renew their caps annually. Reserve Banks will monitor the financial condition of institutions to ensure they continue to qualify for the exempt-from-filing net debit cap.

3. De minimis

Institutions that incur daylight overdrafts up to 40 percent of their capital measure may qualify for a de minimis net debit cap. To ease the burden of performing a self-assessment, the PSR policy allows a financially healthy institution to 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 twelve-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. If an institution with a de minimis cap exceeds its cap during a two-week reserve-maintenance period, its Reserve Bank will counsel the institution and decide whether the de minimis cap

should be maintained or the institution will be required to perform a self-assessment for a higher cap.

4. Self-assessed

To establish a net debit cap in the high, above average, or average category, an institution must perform a self-assessment of its creditworthiness, intraday funds management and controls, customer credit policies and controls, and operating controls and contingency procedures. The results of the self-assessment should indicate the appropriate cap category for the institution.

The institution's (or its holding company's) board of directors should review and approve the institution's self-assessment and recommended cap category. The directors' approval must be communicated to the Reserve Bank by submission of a board of directors' resolution (appendix B provides a sample resolution). The Reserve Bank will review the cap for appropriateness, in conjunction with the institution's primary regulator. Should the Reserve Bank determine that the cap resolution is not appropriate, it will advise the institution to reevaluate the self-assessment and submit another resolution. The self-assessment process and the board of directors' review should be conducted at least once in each twelve-month period.

An institution that experiences a significant change in its financial condition or organizational structure, such as a merger, acquisition, large charge-off, or increase in loan loss reserves, is required to review its current cap category with particular focus on creditworthiness standards. A resolution to establish a different cap category may be submitted by the institution or may be required by the Reserve Bank, before the annual renewal date if circumstances warrant such a change.

Details of the self-assessment process are provided in section VII and appendix A of this manual. Other institutions, such as those in the zero, exempt-from-filing, or the de minimis cap categories, may also find it helpful to review certain sections of the self-assessment procedures, which contain information on evaluating the effectiveness of controls over payment processing.

C. Maximum Daylight Overdraft Capacity

The PSR policy recognizes that while net debit caps provide sufficient liquidity to most institutions, some institutions may still experience liquidity pressures. To relieve these pressures, certain institutions with self-assessed net debit caps may pledge collateral to the Federal Reserve to secure daylight overdraft capacity in excess of their net debit caps, subject to Reserve Bank approval. The net debit cap plus the additional capacity is referred to as the "maximum daylight overdraft capacity" or "max cap." This policy is intended to provide extra liquidity through the use of collateral by the few institutions that might otherwise be constrained.

1. *General procedure*²⁵

An institution with a self-assessed net debit cap that wishes to expand its daylight overdraft capacity by pledging collateral should consult with its ARB.²⁶ Under the general procedure, institutions are expected to submit the following information when requesting maximum daylight overdraft capacity:

- the amount of daylight overdraft capacity requested
- written justification for requesting additional daylight overdraft capacity
- a principal contact at the institution.

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 for maximum daylight overdraft capacity, the Reserve Bank will evaluate the institution's rationale for requesting additional daylight overdraft capacity as well as financial and supervisory information.

An institution approved for a maximum daylight overdraft capacity level under the general procedure must submit at least once in each twelve-month period a board of directors' resolution indicating its board's approval of that level. (Appendix B provides a sample resolution.)²⁷

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 maximum daylight overdraft capacity. These FBOs are not required to provide documentation of the business need or a board of directors' resolution for collateralized capacity in the amount that exceeds its

²⁵ General procedure applies to all institutions, except FBOs obtaining a max cap under the streamlined procedure, described further in this section.

²⁶ Institutions with an exempt-from-filing or a de minimis net debit cap are not eligible to apply for maximum daylight overdraft capacity. Institutions that have been assigned a zero net debit cap by a Reserve Bank also are not eligible to apply for maximum daylight overdraft capacity. If an institution that qualifies for a positive cap has adopted a zero cap voluntarily, it must apply for a higher net debit cap before requesting maximum daylight overdraft capacity.

Institutions may apply for maximum daylight overdraft capacity 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 (See 59 FR 54915, November 2, 1994).

²⁷ Many FBOs do not have the same management structure as U.S. depository 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 maximum daylight overdraft capacity request 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. depository institution. In cases in which the board of directors exercises authority equivalent to that of a U.S. board, the request for maximum daylight overdraft capacity should be reviewed by the board of directors. A depository institution may revise its request for additional collateralized daylight overdraft capacity at any time, provided there is sufficient justification for doing so.

current net debit cap (which is based on up to 35 percent of worldwide capital times its cap multiple), as long as the requested total capacity is 100 percent or less of worldwide capital times the self-assessed cap multiple. The Reserve Bank will assess the ability of eligible FBOs to manage the intraday capacity permitted by the streamlined max cap as part of its review of relevant financial and supervisory information. The Reserve Bank, in consultation with the home country supervisor, would engage in initial as well as periodic dialogue with the institution that would be analogous to the periodic review of liquidity plans performed with U.S.-chartered institutions to ensure that the institution's intraday liquidity risk is managed appropriately.²⁸ 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.

3. Determination of the max cap amount under general and streamlined procedures

The Reserve Bank's approval of an institution's request for additional daylight overdraft capacity is an approval for a maximum level of daylight overdraft capacity. The maximum daylight overdraft capacity is defined as follows:

$$\text{maximum daylight overdraft capacity} = \text{net debit cap} + \text{collateralized capacity.}^{29}$$

The institution's maximum daylight overdraft capacity limit is equal to its net debit cap plus its collateralized capacity. The institution is expected to avoid incurring daylight overdrafts that would exceed this limit. The Reserve Banks will review the status of any institution that exceeds its maximum daylight overdraft capacity limit during a single day and will decide if the maximum daylight overdraft capacity should be maintained or if additional action should be taken (see section IV.B.).

4. Collateral pledged for max cap purposes

All collateral that institutions pledge to the Reserve Banks must be acceptable to the Reserve Banks.³⁰ A self-assessed institution that has been approved for maximum daylight

²⁸ The liquidity reviews will be conducted by the administrative Reserve Bank. The liquidity review may include, but is not limited to, verification of the FBO's most-recent capital information; FHC/SOSA status; review of recent examinations/reviews and/or internal and external audits of payment system and electronic funds transfer operations, including the PSR self-assessment documentation, review of funding/liquidity risk framework of the FBO's U.S. operations; and consultation with the FBO's home country supervisor. At its discretion, the ARB may require additional information from any FBO, including information on the FBO's global liquidity/funding policies, procedures, and limits. The ARB may review liquidity management reports, interview the FBO's management, and require the FBO to submit periodic liquidity reports in the format determined by the Reserve Bank.

²⁹ Collateralized capacity represents the collateralized component of the maximum daylight overdraft capacity approved by the Reserve Bank. The amount of collateralized capacity cannot exceed the difference between the institution's maximum daylight overdraft capacity level and its net debit cap. For example, if an institution's single-day net debit cap increases as a result of an increase in capital at the institution, its maximum daylight overdraft capacity is unchanged, so its collateralized capacity is reduced. The institution's overdraft position will be measured against the lesser of (1) its maximum daylight overdraft capacity or (2) its net debit cap plus the amount of collateral pledged.

overdraft capacity may, at any time, pledge more or less collateral than the collateralized capacity. Pledging less collateral reduces the effective maximum daylight overdraft capacity level; however, pledging more collateral will not increase the maximum daylight overdraft capacity above the approved level. Collateral pledged to support a max cap offsets daylight overdraft fees and is used to determine fully collateralized cap breach waivers.³¹ For more information on collateral, refer to the Collateral section (III) of this Guide.

5. Examples of Maximum Daylight Overdraft Capacity

Institution's parameters:

- Net debit cap = \$20 billion
- Reserve Bank-approved max cap = \$25 billion
- Collateralized capacity = up to \$5 billion

Example 1: Compliance with PSR policy:

- Collateral pledged* = \$10 billion
- Effective max cap** = \$25 billion
- Average daylight overdraft on given day = \$23 billion

Outcome: The institution is in compliance with the PSR policy and does not breach its max cap.

Example 2: Max cap breach:

- Collateral pledged* = \$2 billion
- Effective max cap** = \$22 billion
- Average daylight overdraft on given day = \$23 billion

Outcome of max cap breach: The institution breaches its max cap and is not in compliance with the PSR policy.

Example 3: Fully collateralized max cap breach:

- Collateral pledged* = \$10 billion
- Effective max cap** = \$25 billion
- Average daylight overdraft on given day = \$27 billion

³⁰ Collateral eligibility and margins are the same for PSR policy purposes as for the discount window. See <http://www.frbdiscountwindow.org/> for information. The Reserve Banks may accept securities in transit on the Fedwire book-entry securities system as collateral to support a max cap or to secure daylight overdrafts for a zero fee under the PSR policy. *Securities in transit* refers to book-entry securities transferred over the Fedwire Securities Service that have been purchased by a depository institution, but not yet paid for and owned by the institution's customers.

Under some circumstances, collateral availability may differ for discount window and PSR purposes, such as max cap. For example, during periods when the Federal Reserve authorizes term lending, institutions requesting an advance of more than 28 days need to hold an additional 33 percent of collateral in excess of the collateral required for the advance. This additional collateral will not be available for discount window purposes but will be available for PSR purposes, including supporting a max cap, securing daylight overdrafts for a zero fee, and qualifying for a fully collateralized cap breach waiver, if eligible.

³¹ For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

Outcome 2: The institution breaches its max cap and may be eligible for a fully collateralized cap breach waiver (up to two within two consecutive reserve maintenance periods). For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

*The example assumes collateral levels are held constant throughout the day.

** An institution's effective max cap is the lesser of (1) an institution's Reserve Bank-approved max cap or (2) an institution's net debit cap plus the amount of collateral pledged to secure the collateralized capacity.

D. Role of an Institution's Board of Directors

The Federal Reserve expects the board of directors of an institution to establish and implement policies to ensure that its management follows safe and sound operating practices, complies with applicable banking laws, and prudently manages financial risks. Given these responsibilities, the directors play a vital role in the Federal Reserve's efforts to reduce risks within the payment system.

As part of the PSR policy, the Federal Reserve expects an institution's board of directors, at a minimum, to accept the following responsibilities:

- Understand the institution's practices and controls regarding the risks assumed when processing transactions for its own account and the accounts of its customers or respondents.
- Establish prudent limits on the daylight overdrafts that the institution incurs in its Federal Reserve account and on privately operated clearing and settlement systems.
- Periodically review the frequency and dollar levels of daylight overdrafts to ensure that the institution operates within the guidelines established by its board of directors. Directors should be aware that, under the Federal Reserve's PSR policy, repeated policy violations could lead to reductions in the institution's daylight overdraft capacity, as well as the imposition of restrictions on its Federal Reserve account activity that could affect the institution's operations.

The directors may appoint a committee of directors to focus on the institution's participation in payment systems and its use of intraday credit. Furthermore, a higher-level board of directors of the same corporate family may conduct a self-assessment review and approve a resolution. For example, the board of directors of the parent company of a bank holding company may review the self-assessment and request a net debit cap for one or more of its banking subsidiaries. The board of directors should be aware that delegating the review process to a committee or higher level board does not absolve the directors from the

responsibilities outlined in the Federal Reserve's PSR policy. The directors may not delegate this responsibility to an outside consultant or third-party service provider.

For institutions requesting daylight overdraft capacity above their net debit caps, the board of directors must understand the reasons the institution is requesting additional daylight overdraft capacity, the amount of the collateralized capacity, and the total amount of the net debit cap plus collateralized credit.³²

The Federal Reserve recognizes that the boards of directors of U.S. branches and agencies of foreign banks do not necessarily serve in the same capacity as boards of directors of institutions in the United States. Therefore, individuals who are responsible for formulating policy at the foreign bank's head office may substitute for the board of directors in performing the responsibilities specified in the PSR policy.

E. Cap Resolutions

The policy requires a board of directors' resolution to establish a cap in the de minimis or self-assessed (average, above average, or high) cap categories or to establish maximum daylight overdraft capacity under the general procedure.³³ These resolutions must follow a prescribed format. Specifically, resolutions must include the following: (1) the official name of the institution, (2) the city and state in which the institution is located, (3) the date the board acted, (4) the cap category adopted, (5) the appropriate official signature, and (6) the routing number of the institution associated with its Federal Reserve master account. For a board resolution approving the results of a self-assessment, the resolution must identify the ratings assigned to each of the four components of the self-assessment as well as the overall rating used to determine the actual net debit cap. In addition, the institution should indicate if it did not use the Creditworthiness Matrix approach in determining its creditworthiness rating (appendix B provides sample resolutions).

An institution's primary supervisor may review the resolutions and any information or materials used by the institution's directors in fulfilling their responsibilities. Supporting documentation used in determining an appropriate cap category must be maintained at the institution. Under the PSR policy, the resolution and supporting documentation must be made available to the institution's supervisory examiners. At a minimum, the institution's "cap resolution file" must contain the following items:

- an executed copy of the resolution adopting the net debit cap or maximum daylight overdraft capacity, if the latter is obtained under the general procedure

³² While FBOs requesting streamlined max caps are not required to provide the board of directors resolution for the max cap, the Federal Reserve believes that it is important for the FBO's board to be aware of the institution's daylight overdraft capacity limits with the Federal Reserve.

³³ FBOs obtaining maximum daylight overdraft capacity under the streamlined procedure are not required to provide to the Reserve Bank a board of directors' resolution authorizing the level of the maximum daylight overdraft capacity but must provide the board of directors' approval of the self-assessed cap level.

- for institutions with self-assessed caps, copies of management’s self-assessment of creditworthiness, intraday funds management and control, customer credit policies and controls, and operating controls and contingency procedures
- minutes and other documentation that serve as a formal record of any discussions regarding the self-assessment or the request for maximum daylight overdraft capacity by the directors, if the max cap is obtained under the general procedure
- status reports made available to the board of directors regarding the institution’s compliance with resolutions adopted by the directors as well as with the PSR policy
- other materials that provide insight into the directors’ involvement in carrying out their responsibilities under the PSR policy, including special studies or presentations made to the directors
- for the maximum daylight overdraft capacity resolution, the maximum daylight overdraft capacity amount

The board of directors’ resolutions for de minimis and self-assessed institutions and for maximum daylight overdraft capacity are valid for one year after the Reserve Bank approves the net debit cap or the maximum daylight overdraft capacity amount. An institution with a de minimis cap must renew its cap resolution annually by submitting a new resolution to its Reserve Bank. An institution with a self-assessed cap must perform a self-assessment annually and submit an updated cap resolution to its Reserve Bank. An institution with a maximum daylight overdraft capacity amount must perform a self-assessment annually and submit an updated maximum daylight overdraft capacity board of directors’ resolution and documentation of the institution’s business need for its max cap to its Reserve Bank annually if it obtains the max cap under the general procedure. In conjunction with an institution’s primary supervisor, the Reserve Bank reviews each resolution for appropriateness.

Because institutions may, in some cases, require considerable time to complete and approve their self-assessments, institutions should be aware of the expiration date of their cap resolutions well in advance. If a new cap resolution is not received by the expiration date, an institution may be assigned a zero cap, which prohibits the institution from using any Federal Reserve intraday credit.

F. Confidentiality of Cap Information

The Federal Reserve regards cap categories and net debit caps as confidential information and will share this information only with an institution’s primary supervisor (5 U.S.C. §

552(b)).³⁴ Institutions are also expected to treat their cap as confidential and should not disclose this information for marketing purposes. If an institution believes that it must disclose its cap under securities law, the Federal Reserve does not prohibit such disclosure.

³⁴ For more information on the Freedom of Information Act, see <http://www.federalreserve.gov/generalinfo/foia/foiastat.cfm>.

III. Collateral

The PSR policy permits institutions with regular access to the discount window to pledge collateral voluntarily to secure daylight overdrafts at a zero fee, to support an approved max cap, and to qualify for fully collateralized cap breach waivers.³⁵ Additionally, a Reserve Bank may require an institution to pledge collateral in certain circumstances, such as when an institution presents heightened risk to the Reserve Bank, or the Reserve Bank determines that an institution's account management practices are not sufficient to prevent impermissible daylight overdrafts. An institution may also pledge collateral to its local Reserve Bank to secure an extension of credit from the discount window.³⁶

Under the PSR policy, any type of collateral that is acceptable for discount window lending is also acceptable for PSR purposes, including stable pool and off-premise collateral at the discretion of the Reserve Bank.³⁷ A Reserve Bank may also accept in-transit book-entry securities as collateral for PSR purposes at its discretion.³⁸ When an institution pledges collateral to its Reserve Bank for PSR or discount window purposes, it is placed in a single Federal Reserve collateral account.³⁹ The Federal Reserve's Collateral Management System (CMS) records and maintains information on the collateral pledged to Reserve Banks, including tracking intraday pledges and withdrawals, and providing information on collateral eligibility and valuation. An institution's Federal Reserve collateral account reflects the total value of collateral pledged regardless of whether it is actively being pledged for PSR purposes (to secure intraday credit) or for discount window purposes (to secure overnight lending).

In assessing daylight overdraft charges, the Federal Reserve compares an institution's end-of-minute daylight overdraft balance with that institution's end-of-minute balance of Federal Reserve collateral less encumbrances, which is the value of an institution's collateral available for daylight overdraft purposes.⁴⁰ An institution's collateralized daylight overdrafts is charged a zero fee, and uncollateralized daylight overdrafts are assessed a fee of 50 basis points.

³⁵ Institutions that are not eligible to borrow from the discount window, such as Edge Act and agreement corporations, bankers' banks that are not subject to reserve requirements, limited-purpose trust companies, GSEs, and certain international organizations, are not eligible for intraday credit and will be assessed a penalty fee for any collateralized or uncollateralized daylight overdrafts.

For more information on max caps, refer to part C of the Daylight Overdraft Capacity section (II) of this Guide. For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

³⁶ Federal Reserve policies and procedures related to discount window lending programs are located at <http://www.frbdiscountwindow.org>.

³⁷ For information on types of acceptable collateral visit the discount window's website at <http://www.frbdiscountwindow.org>.

³⁸ *In-transit securities* refer to book-entry securities transferred over the Fedwire Securities Service that have been purchased by a depository institution but not yet paid for and owned by the institution's customers.

³⁹ Institutions may also pledge collateral for Treasury purposes, which may be held in a number of Treasury program collateral accounts.

⁴⁰ Collateral pledged and applied for max cap purposes and PSR required collateral are included in the Federal Reserve collateral account total and are not considered encumbrances. These values are included in the value of collateral available for daylight overdraft purposes intraday and are applied in calculating an institution's daylight overdraft charges. In-transit collateral is not reflected in the value of collateral available for daylight overdraft purposes intraday but is applied in calculating an institution's daylight overdraft charges ex post. For more information on collateral available for daylight overdraft purposes, see part F of this section.

A. Collateral Eligibility

Institutions must pledge assets that the Reserve Bank has identified as eligible collateral. Generally, collateral that is acceptable to the Reserve Bank for discount window lending is also acceptable for PSR purposes. In determining whether collateral is acceptable, the Reserve Bank will consider whether assets meet regulatory standards for sound asset quality and other associated risks. The Federal Reserve provides a detailed list of acceptability criteria on the discount window and PSR website.⁴¹ This list provides information on general acceptance criteria applicable for all securities and loans and also outlines the acceptance criteria applicable by asset type.

B. Collateral Valuation

In general, the Federal Reserve seeks to value all pledged collateral at fair market value. The Federal Reserve values loans using internal models and typically uses prices supplied by external vendors for the valuation of securities. The Federal Reserve applies margins to the fair market value estimates to determine collateral value for the institution. The Federal Reserve's margins are based on risk characteristics of the pledged asset, as well as the anticipated volatility of the fair market value of the pledged asset over an estimated liquidation time frame. The Federal Reserve publishes its collateral margins table and provides a summary of the Federal Reserve's approach to valuing and margining collateral pledged for discount window and payment system risk purposes on the discount window website.⁴²

1. Securities valuation

The Federal Reserve typically values securities using prices supplied by external vendors. If the Federal Reserve can reasonably estimate a value from market information using internal valuation models, it will assign an internally modeled price to a security if a vendor price cannot readily be obtained. Pledged securities are subject to daily repricing. Revised collateral values for securities pledged through FSS and DTC are effective by or before 8:00 a.m. ET each day.

2. Loan valuation

To estimate the value of loan collateral, the Federal Reserve first models the cash flow characteristics of the loan, and then calculates the fair market value of the loan as the net present value of these cash flows. When an institution pledges loans to its Reserve Bank, the Federal Reserve either processes those loans individually as an automated loan deposit (ALD), or in aggregate by loan type as a group deposit. If an institution's loan file is eligible, the Federal Reserve will record the loans individually using the ALD process and will calculate an internally

⁴¹ See the Discount Window and Payment System Risk Acceptance Criteria for Commonly Pledged Asset Types table that is available on the discount window and PSR website at <http://www.frbdiscountwindow.org>. This document is for informational purposes only, is subject to change without notice, and is not binding on the Federal Reserve System in any particular transaction.

⁴² The discount window and PSR collateral margins table is located at <http://www.frbdiscountwindow.org/discountmargins.xls>.

modeled fair market value for each loan, based on loan-specific characteristics.⁴³ If an institution pledges loans in a group deposit, the Federal Reserve will model a fair market value using the characteristics of a typical loan pool of the same loan type as the group deposit.

The Federal Reserve's internally modeled fair market value estimates are updated monthly, effective the first business day of each month, for both individually and group deposited loans. In addition, Reserve Banks may assign pledged loans a risk rating of “minimal risk” or “normal risk.” In some cases, loans that are assigned a “minimal risk” rating will receive a higher collateral value than those that are assigned a “normal risk” rating.

3. Collateral margins

The Federal Reserve estimates margins for securities and loans pledged as collateral using Value-At-Risk analysis, which develops margins from historical price volatility of assets within each collateral category. The Federal Reserve may assign a securities margin based on the type of security, its duration, and its rating. Any security that was not assigned a price by an external vendor receives the lowest margin from the Federal Reserve's margins table for that asset type. The Federal Reserve assigns individually deposited loan margins based on the individual loan's type, coupon, and maturity. The Federal Reserve assigns group deposited loans a single margin based on conservative assumptions about the characteristics of pledged loan pools. The margin for group deposited loans is equal to or below the margin applied to comparable loans pledged via individual deposit. The discount window and PSR collateral margins table is located at <http://www.frbdiscountwindow.org/discountmargins.xls>.

C. Pledging Collateral

The procedures for pledging collateral under the PSR policy are the same as those for pledging to the discount window. Institutions interested in pledging collateral for discount window or PSR purposes must complete certain legal documents (authorizing resolutions and agreements) with their Reserve Bank, specifically, Operating Circular No.10 documents.⁴⁴ All collateral pledged to a Reserve Bank must be free of any conflicting claims, liens, security interests or restrictions upon transfer or pledge to the Reserve Bank.⁴⁵ The Reserve Bank must be able to obtain a perfected first priority security interest in collateral.

Depending on what type of stable pool collateral is pledged, institutions may need to

⁴³ Under the Federal Reserve's enhanced ALD process, institutions may submit a pledged loan listing in one of a variety of electronic file formats, including Microsoft Excel® spreadsheet software, comma separated files (CSV), text, and non-imaged portable document format (PDF). All loan types except credit card receivables and student loans are supported under the ALD process.

⁴⁴ For more information on filing Operating Circular No. 10 documents institutions should contact their local Reserve Bank or visit http://www.frbdiscountwindow.org/req_sig.cfm?hdrID=19&dtlID=42.

⁴⁵ When instruments, accounts, chattel paper, or intangibles are pledged to secure discount window obligations, a financing statement (UCC-1) is filed with the appropriate authorities to perfect the Reserve Bank's interest in the collateral. Reserve Banks conduct lien searches to ensure that no other creditors have filed a UCC-1 covering the same collateral. An institution may be required to submit a certificate (within appendix 3 to Operating Circular No.10 for domestic institutions, within appendix 4 for foreign banking organizations), which will provide the Federal Reserve Bank with all of the information needed to make an effective UCC-1 financing statement filing against the borrower. An institution should contact its Reserve Bank to determine if it must complete the certificate.

establish one or more pledging arrangements. Collateral may reside in Fedwire Securities Service (FSS), at the Depository Trust Company (DTC), at a custodian, at the pledging institution via a Borrower-In-Custody arrangement (BIC), at a foreign depository, or at the institution's Reserve Bank.⁴⁶

1. Fedwire Securities Service (FSS)

FSS is the Fedwire book-entry securities system that consists of safekeeping, transfer, and settlement functions maintained on the books of the Reserve Banks. U.S. Treasury-issued securities and certain U.S. government agency and GSE-issued securities pledged in electronic (book-entry) form in FSS may be held by an institution in various securities accounts. Institutions can initiate a pledge of securities held in FSS online using Fedline® or offline by contacting Reserve Bank Wholesale Operations staff by phone.⁴⁷ If the securities are held by a correspondent, the correspondent can initiate the pledge. A depository institution must enter a separate request for each security pledged. Once the request is submitted, it is processed in FSS. If the security meets eligibility standards, it is deposited and assigned value.

2. Depository Trust Company (DTC)

DTC is a limited-purpose trust company organized under New York law that acts as the central securities depository for most publicly traded equity securities and many fixed-income securities in the U.S. market. Each Reserve Bank has established a pledge account with DTC through which securities may be pledged by institutions. DTC arrangements are used to pledge eligible securities (such as municipal or corporate debt securities) that institutions hold through DTC. An institution may directly pledge such securities (if it is a DTC participant) or may pledge DTC-held securities through a correspondent that is a DTC participant. Institutions holding securities through correspondents that are DTC participants must direct their correspondent to initiate the transfer of securities.

CMS will screen securities delivered via DTC against collateral eligibility criteria. If additional information is needed to confirm eligibility or establish appropriate collateral valuation, Reserve Bank staff may contact the pledging institution.

3. Third-Party Custody Pledging Arrangement

An institution may designate a third-party custodian to provide collateral custody services. Third-party custody arrangements involve an institution (borrower), another institution that holds the assets to be pledged (custodian), and the Reserve Bank (lender). A third-party custodian must not be affiliated with a pledging institution and must be approved by the Reserve

⁴⁶ For more information, visit the Federal Reserve System Guide to Discount Window and PSR Collateral available at <http://www.frbdiscountwindow.org>.

⁴⁷ Contact information for Wholesale Operations staff is available at http://www.frbsecurities.org/contactus/fedwire_contacts.html.

"Fedline" is a registered trademark of the Federal Reserve Banks. A complete list of marks owned by the Federal Reserve Banks is available at FRBservices.org.

Bank prior to any pledge of collateral. Custodians that are affiliated with the pledging institution will be considered under the Borrower-In-Custody pledging arrangement. In some cases, an acceptable custodian may be an entity other than a financial institution. In all cases, however, the custodian must be in sound financial condition and have acceptable custody controls for the assets in its possession.⁴⁸

4. Borrower-in-Custody of Collateral (BIC) Arrangement

BIC arrangements may be used when an institution is approved by its Reserve Bank to maintain physical control of the loans either on its own premises or held on the premises of a custodian. Under this arrangement, institutions or custodians may retain custody of collateral while pledging it to a Reserve Bank, but the BIC collateral must be designated as being pledged to the Reserve Bank.

Institutions may qualify for a BIC arrangement at the discretion of the Reserve Bank.⁴⁹ Institutions must maintain appropriate document-storage facilities and have an acceptable automated record/reporting system, which must be capable of identifying the assets subject to the Reserve Bank's security interest. Once an institution has pledged loans under a BIC arrangement, the institution must submit a periodic collateral schedule that identifies assets held under the BIC arrangement.⁵⁰

If an institution no longer qualifies for a BIC arrangement, the Reserve Bank, at its discretion, may choose to take custody of the collateral either at the Reserve Bank, or under a field warehouse arrangement at the institution or other approved location.

5. Foreign Depositories

At its discretion, each Reserve Bank may enter into a custodian arrangement with Clearstream and Euroclear as necessary to hold foreign-issued or foreign-denominated securities. If an institution's Reserve Bank has entered into a custodian arrangement with Clearstream or Euroclear, and the institution is approved by its Reserve Bank, it may deposit collateral using Clearstream or Euroclear procedures. Clearstream or Euroclear screens the proposed collateral against eligibility criteria predetermined by the Federal Reserve. Clearstream and Euroclear each send the Reserve Bank the current day's activity to be loaded into CMS once a day.⁵¹

⁴⁸ An institution should contact its Reserve Bank to obtain approval of its proposed custodian and must execute appropriate agreements to qualify for a third-party custody pledging arrangement.

⁴⁹ Institutions must complete the appropriate documentation to qualify for a BIC arrangement.

⁵⁰ An institution should contact its Reserve Bank to learn what specific information to include on the collateral schedule and how frequently the schedule should be submitted. If an institution fails to file an updated collateral schedule by a specified time of the month, it will be notified that an update has not been received and advised that the BIC collateral will be assigned a zero value after a specified grace period. Some types of BIC collateral may be subject to more-or-less-frequent updates.

⁵¹ Additionally, an alternative manual deposit process may be used for Euroclear. See the Discount Window and PSR Collateral Guide at <http://www.frbdiscountwindow.org> for more information.

6. Reserve Bank Custody

Reserve Bank custody of collateral is available for custody of tangible assets, such as promissory notes evidencing commercial/consumer loans. Prior to pledging customer obligations, an institution should contact its Reserve Bank to discuss the pledging process. The Reserve Bank may request financial information and other details about the institution's customers in order to evaluate the credit quality of the obligations. Generally, customer obligations are only be acceptable if evidenced by an original document signed by the customer. This document may take the form of a promissory note or credit agreement that states the specific terms of the lending agreement. Customer obligations physically delivered to a Reserve Bank must be in a form that allows the assets to be liquidated without further action by the institution (endorsement of pledged notes or power of attorney may be required).

7. In-transit Securities

A Reserve Bank may accept in-transit securities as collateral for PSR purposes such as to secure additional daylight overdraft capacity (max cap), to offset daylight overdraft fees, and to qualify for a fully collateralized cap breach waiver.⁵² In-transit securities are defined as book-entry securities transferred over FSS that have been purchased by a depository institution but not yet paid for and owned by the institution's customers.

If a Reserve Bank accepts, and an institution chooses to pledge in-transit securities as collateral for PSR purposes, the institution will have to record on its books in real time both the securities that are pledged to the Reserve Bank, and the cash allocated by the institution's customers to fund securities transactions. There are special considerations related to in-transit book-entry securities collateral that must be considered by the depository institution. Pledging institutions must provide a file to CMS each night containing CUSIP-level, minute-by-minute data on securities pledged and cash provided by the institution's customers to fund the securities purchases.⁵³ Institutions will need to establish a connection for the data transmission, comply with deadlines for file submission, and conform to file formatting requirements. CMS will price and apply any necessary margin adjustments to these securities net of customer funding amounts to arrive at a value for in-transit collateral for each minute of the day.

Institutions interested in pledging in-transit collateral for PSR purposes should contact their local Reserve Bank staff for detailed information and technical specifications.

D. Withdrawing Collateral

An institution may withdrawal collateral pledged to the Federal Reserve if that collateral is not considered encumbered by the Reserve Bank. Reserve Banks consider collateral that is

⁵²For more information on max caps, refer to part C of the Daylight Overdraft Capacity section (II) of this Guide. For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁵³ Pledging institutions must filter out from the report those Fedwire securities that are not discount window eligible.

securing an outstanding extension of credit at the discount window or securing a PSR collateral requirement to be encumbered. Reserve Banks do not consider collateral pledged to support a max cap to be encumbered, and is available for withdrawal at the institution's discretion.⁵⁴ The procedure to withdraw collateral depends on the collateral's pledging arrangement.⁵⁵

1. Fedwire Securities Service (FSS)

Institutions may request a release of FSS collateral online using Fedline, or off-line by telephoning the Wholesale Operations staff. Once the request is submitted in FSS, the securities will be released if the collateral is unencumbered. The Reserve Bank and the institution will receive notification that the security has been released, and the institution will receive the associated reduction of collateral value in its FR account. If the collateral is encumbered, the Reserve Bank will reject the withdrawal request and FSS will not release the security.

2. Depository Trust Company (DTC)

In order to withdraw DTC collateral, an institution (or custodian) initiates an instruction to move an asset out of the Reserve Bank's pledge account in DTC. If the collateral is unencumbered, the securities will be released. If the security is encumbered, the Reserve Bank will reject the withdrawal request, DTC will not release the security, and DTC will send a message back to the institution or its custodian.

3. Custodians, BIC Arrangements, and Reserve Bank Custody

If an institution with collateral pledged through a third-party custodian, pledged through a BIC arrangement, or in the custody of its Reserve Bank would like to withdraw its collateral, it must submit a written request to its Reserve Bank. The Reserve Bank will determine if the collateral is encumbered. If the collateral is unencumbered, the Reserve Bank will withdraw the collateral from CMS and inform the institution that its collateral has been released.

4. Foreign Depositories

Institutions that would like to withdraw Clearstream collateral must submit their requests through Clearstream. For same-day release, the institution must contact Clearstream prior to 12:00 p.m., and Clearstream will contact the Reserve Bank once per day to request authorization for the release.⁵⁶ The Reserve Bank will review the request to determine if the collateral is unencumbered. If the collateral is unencumbered, the Reserve Bank will send an approval message to Clearstream to release it.

Institutions that would like to withdraw Euroclear collateral must submit their request to

⁵⁴ Institutions with approved max caps may, at any time, pledge collateral to use the additional capacity in full or in part. Pledging less collateral than the collateralized capacity will effectively reduce an institution's available daylight overdraft capacity.

⁵⁵ For more information on pledging arrangements refer to the Federal Reserve System Guide to Discount Window and PSR Collateral, located at <http://www.frbdiscountwindow.org>.

⁵⁶ Withdrawal requests must be quoted in US dollars.

the Reserve Bank. The Reserve Bank will review the request to determine if the collateral is unencumbered. If the collateral is unencumbered, the Reserve Bank will send an approval message to Euroclear to release it.

E. Collateralized Daylight Overdrafts

1. Eligibility for zero-priced collateralized daylight overdrafts

Institutions with regular access to the discount window receive a zero fee for the collateralized portion of their overdrafts, and are assessed a fee of 50 basis points (annual rate) for the uncollateralized portion of their overdrafts. For more information on how the Federal Reserve calculates daylight overdraft fees for such institutions, refer to part A of the Daylight Overdraft Fees section (V) of this Guide.

Institutions that are not eligible for regular access to the discount window, such as Edge Act and agreement corporations, bankers' banks that are not subject to reserve requirements, limited-purpose trust companies, GSEs, and certain international organizations, are not eligible for intraday credit and will be assessed a penalty rate of 150 basis points (annual rate) for any collateralized or uncollateralized daylight overdrafts. For more information on how the Federal Reserve calculates daylight overdraft fees for such institutions, refer to part C of the Daylight Overdraft Fees section (V) of this Guide.

An institution with collateral pledged to support an approved max cap receives a zero fee for any daylight overdraft covered by the pledged collateral. Additional collateral pledged over the amount needed to support the max cap will offset daylight overdraft fees but will not increase the total max cap amount. For more information on max caps, including examples of how maximum daylight overdraft capacity is calculated, refer to part C of the Daylight Overdraft Capacity section (II) of this Guide.

2. Collateral available for daylight overdraft purposes

An institution's collateral available for daylight overdraft purposes is calculated by subtracting the value of all outstanding loan advances from the value of the collateral in the institution's Federal Reserve account. Collateral securing an extension of credit from the discount window may not be simultaneously applied for PSR pricing purposes. Collateral pledged towards a max cap or as a collateral requirement from the Reserve Bank is included in an eligible institution's collateral available for daylight overdraft purposes. When an institution repays an outstanding discount window loan, the institution's collateral available for daylight overdraft purposes is increased by the value of the collateral that had been encumbered by the loan. Institutions will be able to monitor the value of their collateral available for daylight overdraft purposes in near-real-time, as discussed in detail in part G (Collateral Monitoring) of this section.

The Federal Reserve determines the extent to which a daylight overdraft is collateralized by comparing an institution's end-of-minute daylight overdraft balance to the value of collateral available for daylight overdraft purposes at that minute. If the value of an institution's collateral

available for daylight overdraft purposes meets or exceeds its daylight overdraft for a given minute, then that minute of overdraft is considered fully collateralized and will receive a zero price. If the daylight overdraft balance exceeds the collateral available for daylight overdraft purposes, the portion of the daylight overdraft that is uncollateralized is included in the calculation of the institution's fees. For more information on how the Federal Reserve calculates daylight overdraft fees, refer to the Daylight Overdraft Fees section (V) of this Guide.

F. Reserve Bank PSR Collateral Requirements

Under the PSR policy, a Reserve Bank may require an institution to pledge collateral in certain circumstances. A Reserve Bank may impose a PSR collateral requirement if an institution presents heightened risk to the Reserve Bank or incurs an impermissible daylight overdraft. Institutions that are eligible for regular access to the discount window and with collateral pledged towards a PSR collateral requirement will have the value of that collateral applied towards pricing daylight overdrafts incurred by the institution.⁵⁷ PSR collateral requirements do not contribute to supporting approved max caps and may not be used to simultaneously secure a discount window loan.

Generally, institutions that are not eligible for regular access to the discount window, and therefore do not have access to intraday credit, are required to pledge collateral after they have incurred an impermissible daylight overdraft. Edge Act and agreement corporations, bankers' banks that do not hold reserves, limited-purpose trust companies, GSEs, and international organizations are not permitted to incur daylight overdrafts.⁵⁸ If such an entity incurs a daylight overdraft, the Reserve Bank may require the institution to pledge collateral at least equal to the highest total overdraft incurred by the institution over the past six months. After the institution pledges collateral, ex post, to cover unauthorized overdrafts, subsequent overdrafts continue to be prohibited as the pledge of collateral does not authorize them to incur daylight overdrafts. Because these account holders are not eligible for routine discount window access, they are assessed a penalty fee on daylight overdrafts (even if collateralized), and they are not eligible for fully collateralized cap breach waivers.⁵⁹

Industrial Loan Companies (ILCs) subject to the Bank Holding Company Act may incur overdrafts on behalf of affiliates that are primary U.S. government security dealers.⁶⁰ ILCs must fully collateralize all overdrafts they incur on behalf of affiliates that are primary U.S.

⁵⁷ The value of the collateral pledged towards the collateral requirement will be included in the value of an institution's collateral available for daylight overdraft purposes, which is used by DORPS to calculate fees for using intraday credit. Additionally, at the Reserve Bank's discretion, institutions with de minimis, self-assessed, or max caps may incur up to two cap breaches in two consecutive reserve maintenance periods (four weeks) without violating the PSR policy. Institutions must fully collateralize these cap breaches in order to be eligible for this waiver. For more information on the fully collateralized cap breach waiver, see the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁵⁸ For more information on Edge Act and agreement corporations, bankers' banks that do not hold reserves, limited-purpose trust companies, GSEs, and international organizations, see the Special Situations section (VI) of this Guide.

⁵⁹ For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁶⁰ For more information on ILCs, see part B of the Special Situations section (VI) of this Guide.

government security dealers. ILCs will not be assessed a fee on collateralized daylight overdrafts; however, they are not eligible for fully collateralized cap breach waivers.⁶¹

G. Collateral Monitoring

CMS serves as the system of record and valuation for all collateral pledged to the Reserve Banks. Institutions may pledge and withdraw collateral and may receive or repay discount window loans, which affect the amount of unencumbered collateral available for daylight overdraft purposes. CMS updates collateral balances in near-real-time throughout the day and sends this information to Account Management Information (AMI) and to the Account Balance Monitoring System (ABMS), which are Federal Reserve applications that serve as information sources and as balance monitoring and management tools for institutions.⁶²

1. Intraday monitoring

The AMI application provides institutions with near-real-time collateral holdings information. Institutions may view and download aggregate and CUSIP-level collateral information on an intraday basis. Institutions may view and download their intraday increases (including deposits and revaluations) and decreases (including withdrawals and revaluations) to their collateral positions rolled up by asset type (securities or loans). Institutions are also able to view and download their collateral activity chronologically, from the beginning of the day to the close of business.

Institutions may view their value of collateral available for daylight overdraft purposes, which is the value of their Federal Reserve collateral less outstanding discount window advances, during the day through AMI or ABMS.⁶³ Because the collateral available for daylight overdraft purposes is used in the pricing calculation for daylight overdrafts, it is displayed in AMI with the institution's balance information, and institutions may view in near-real-time their collateralized and uncollateralized daylight overdraft balance. Institutions that access balance information through ABMS may receive their collateral available for daylight overdraft purposes through the same means. Further discussion on balance information is available in section IV (DLOD Monitoring and Management) of this guide.

2. Ex post monitoring

In addition to monitoring their collateral balance intraday, institutions may also view information about their collateral holdings and transactions ex post. CMS creates a statement of

⁶¹ For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁶² AMI is a web-based application that provides institutions with real-time access to their intraday account and collateral balances, detailed transaction information, reporting, and inquiry capabilities. For more information, see <http://www.frbservices.org/serviceofferings/account/ami.html>. ABMS receives updated collateral information, including an institution's value of collateral available for daylight overdraft purposes, from CMS on a near-real-time basis. ABMS will use the collateral available for daylight overdraft purposes to calculate the institution's collateralized and uncollateralized daylight overdraft balances, which will also be updated on a near-real-time basis. Institutions can obtain information on ABMS, DORPS, and AMI in the *Account Management Guide* at www.frbservices.org/Accounting/pdf/amg.pdf.

⁶³ AMI and ABMS do not provide institutions with information on extensions of credit.

collateral holdings at the CUSIP level and a report summarizing an institution's collateral transactions grouped by type, such as deposits, withdrawals, and revaluations, which are available to institutions in AMI. Because collateral-related activities occur throughout the day and past the close of business, CMS creates two sets of collateral reports each day. After approximately 5:30 p.m. ET, institutions may access a preliminary version of their holdings statement and transaction report showing the institution's holdings and activity as of approximately 5:30 p.m. ET that day. When all collateral activities have completed for the day, which is generally well after the close of business, institutions will have access to a final version of this report. The final version of the institution's holdings statement and transaction report replaces the preliminary versions in AMI and is available to institutions the next morning. In addition, institutions have access to previous days' final reports, which are also available through AMI.

In addition to the reports available through AMI, at the end of each business day CMS generates a report for each institution that has elected to receive a statement of their collateral holdings via e-mail.⁶⁴ Institutions can determine the frequency with which they receive this report, such as daily, weekly, or monthly. The report lists an institution's collateral holdings at the CUSIP level as of the previous business day.

⁶⁴ Institutions may elect to receive holdings statements via e-mail from CMS if they do not have access to AMI.

IV. Daylight Overdraft Monitoring and Management

The information provided in this section is intended to assist institutions in managing their Federal Reserve account balances. All institutions that maintain Federal Reserve accounts and use Federal Reserve services are expected to monitor their account balances on an intraday basis. Institutions should be aware of payments they are making from their accounts each day and how those payments are funded. Institutions are expected to use their own systems and procedures, as well as the Federal Reserve's systems, described below, to monitor their Federal Reserve account balance and payment activity.

A. Daylight Overdraft Measurement

The Federal Reserve uses the Daylight Overdraft Reporting and Pricing System (DORPS) to monitor an institution's overdraft activity and its compliance with the PSR policy and to calculate daylight overdraft charges. In addition to recording daylight overdraft activity, DORPS maintains information on institutions' current reported capital to calculate their net debit caps. DORPS also collects collateral information from other Federal Reserve applications in order to calculate minute-by-minute what portion of an institution's daylight overdraft is uncollateralized, which is included in the institution's fee calculation.

At the end of each Fedwire operating day, DORPS extracts transaction-level information from the Federal Reserve's accounting and payment systems and calculates end-of-minute account balances according to a set of daylight overdraft posting rules.⁶⁵ An institution's account balance is measured by DORPS at the end of each minute based on the institution's opening balance and all payment transactions posted to the institution's account up until that minute. The daylight overdraft measurement and pricing period coincides with the standard operating hours of Fedwire from 9:00 p.m. ET the preceding calendar day to 6:30 p.m. ET.⁶⁶ Although DORPS records positive and negative total end-of-minute balances in each institution's account, positive end-of-minute balances do not offset negative balances at other times during the day for purposes of determining compliance with net debit caps or for calculating daylight overdraft fees. In addition, when more than one account is maintained for an institution by Reserve Banks, the multiple accounts are consolidated for purposes of calculating the end-of-minute balance.

B. Monitoring Compliance with the PSR Policy

Reserve Banks generally monitor institutions' compliance with the PSR policy over each two-week reserve maintenance period. At the end of each two-week reserve maintenance period, DORPS generates several reports that provide both Reserve Banks and institutions with information for monitoring daylight overdrafts, including the largest (or peak) daylight overdraft for each day during the period and daylight overdrafts in excess of an institution's approved

⁶⁵ The schedule of posting rules is located in part II of the PSR policy, available at http://www.federalreserve.gov/paymentsystems/psr_policy.htm#daylightdef.

⁶⁶ In cases of extensions of Fedwire operating hours, all transactions that occur after the standard Fedwire closing time are posted at 6:30 p.m. for daylight overdraft purposes.

daylight overdraft capacity (cap breach).⁶⁷ An institution incurs a cap breach if, at any time during the Fedwire operating day, it incurs a daylight overdraft in excess of its cap.⁶⁸

The Federal Reserve considers all cap breaches to be violations of the PSR policy except in the following circumstances. First, the policy allows institutions in the exempt-from-filing cap category to incur up to two cap breaches in two consecutive reserve maintenance periods. Second, certain cap breaches incurred by institutions in the administrative counseling flexibility program are not considered policy violations.⁶⁹ Third, Reserve Banks may grant fully collateralized cap breach waivers (FCCB waivers) to institutions in certain circumstances. Under the policy, institutions with de minimis, self-assessed, and max caps net debit caps may fully collateralize up to two cap breaches in two consecutive reserve maintenance periods (four weeks) without violating the policy.⁷⁰ In addition, a Reserve Bank has discretion to waive a violation in limited circumstances, such as an operational problem at a Reserve Bank.

For daylight overdraft purposes, accounts of U.S. branches and agencies of foreign banks, Edge Act and agreement corporations, and merger-transition accounts are monitored on a consolidated basis; that is, a single account balance is derived by adding together the end-of-minute balances of each account.⁷¹ If these institutions have an account in more than one Federal Reserve District, the ARB coordinates the Federal Reserve's daylight overdraft monitoring activities for the consolidated accounts. The accounts of affiliated institutions are monitored separately if they are separate legal entities.

⁶⁷ Institutions may also access current information on their account and collateral balances and daylight overdraft position using AMI. Part C of this section, Real-Time Monitoring, contains additional information on AMI.

⁶⁸ For an institution with a self assessed cap that has been approved for maximum daylight overdraft capacity, the single-day limit is equal to an institution's net debit cap plus the amount of applicable collateralized capacity.

⁶⁹ The administrative counseling flexibility program helps relatively small institutions that, by the nature of their business, will continue to exceed a net debit cap even after the appropriate adjustments have been made. Under this program, the Reserve Banks will work with the affected depository institutions to identify alternatives that would avoid or reduce daylight overdrafts caused by transactions other than Fedwire funds transfers, National Settlement Service transactions, or ACH credit originations. The Reserve Banks generally will not subject these institutions to escalated levels of counseling, require collateral, or assign a zero cap. Institutions in the exempt-from-filing net debit cap category are not eligible for the administrative counseling flexibility program.

⁷⁰ Institutions that are exempt from filing are excluded from this additional flexibility because they already are allowed to exceed their cap limit twice in two consecutive reserve maintenance periods. Zero cap institutions are not eligible for the fully collateralized cap breach waiver.

Foreign banking organizations are monitored at their cap level in real time. If an institution's account is monitored in real time, any outgoing Fedwire funds transfer or National Settlement Service transaction that exceeds available funds is rejected. In addition, FBOs are required to prefund ACH credit originations. If the total amount of all of the ACH credit item originations exceeds the FBO's account balance, none of the items will be processed. If an FBO exceeds its cap periodically due to payment transactions that are not subject to the real-time monitor, the Reserve Bank may waive counseling up to twice in two consecutive reserve maintenance periods if the daylight overdrafts are fully collateralized.

⁷¹ In early 2012, the Federal Reserve will no longer consolidate FBO accounts across Reserve Banks for the purpose of assessing compliance with the PSR policy. State ring-fencing laws may diminish the ability of a Reserve Bank to perfect collateral pledged with another Reserve Bank, thus reducing the protection provided by the collateral against an intraday credit exposure. FBOs will have two options through which to make these changes: (1) function all activity through a single master account or (2) manage daylight overdrafts and collateral separately for each branch or agency. Reserve Banks will contact FBOs with more details prior to the change.

For example, consider a foreign bank family with branches or agencies in New York, Chicago, and San Francisco. Assume that the Federal Reserve Bank of New York is the ARB for the foreign bank and that the family’s intraday position at selected intervals is (in millions):

Time	New York	Chicago	San Francisco	Consolidated
10:00 a.m.	(\$10)	\$5	\$15	\$10
12:00 p.m.	(\$20)	\$5	\$15	\$0
2:00 p.m.	(\$30)	\$10	\$15	(\$5)

On a consolidated basis, overdrafts at the New York branch are offset by positive balances in the Chicago and San Francisco Branches except at 2:00p.m. As the ARB, the Federal Reserve Bank of New York would compare the bank’s consolidated position with its net debit cap and would notify the New York office of the foreign bank if the overdraft exceeded the cap.

1. Consequences of policy violations

A policy violation may initiate a series of Reserve Bank actions aimed at deterring an institution’s excessive use of Federal Reserve intraday credit. These actions depend on the institution’s history of daylight overdrafts and financial condition. Initial actions taken by the Reserve Bank may include an assessment of the causes of the overdrafts, a counseling letter to the institution, and a review of the institution’s account-management practices. In addition, the Reserve Bank may require an institution to submit documentation specifying actions it will take to address the overdraft problems. If policy violations continue to occur, the Reserve Bank may take additional actions. For example, if a financially healthy institution in the zero, exempt-from-filing, or de minimis cap category continues to breach its cap, the Reserve Bank may strongly recommend that the institution file a cap resolution or perform a self-assessment to obtain a higher net debit cap.

In situations in which an institution continues to violate the PSR policy, and counseling and other Reserve Bank actions have been ineffective, the Reserve Bank may assign the institution a zero cap. In addition, the Reserve Bank may impose other account controls that it deems prudent, such as requiring the institution to pledge collateral, imposing account balance requirements; rejecting Fedwire funds transfers or NSS transactions that would cause or increase an institution’s daylight overdraft; or requiring the institution to prefund ACH transactions. Reserve Banks also keep institutions’ primary regulators apprised of any recurring overdraft problems.

C. Real-time Monitoring and the Account Balance Monitoring System (ABMS)

The Reserve Banks use ABMS to monitor in real time the payment activity of institutions that may expose the Federal Reserve and other payment system participants to risk of

loss. ABMS serves as both an information source and an account monitoring and management tool. It allows institutions to obtain intraday balance and collateral information for purposes of managing their use of intraday credit, avoiding overnight overdrafts, and monitoring in real time their collateralized and uncollateralized daylight overdraft balance. All institutions that have an electronic connection to the Federal Reserve's Fedwire Funds Transfer Service are able to access their intraday Federal Reserve account position in ABMS or in AMI. While ABMS is not a substitute for an institution's own internal tracking and monitoring systems, it does provide real-time account information based on Fedwire funds and securities transfers and NSS transactions. Additionally, ABMS captures debits and credits resulting from other payment activity as those transactions are processed in the Reserve Banks' accounting system.⁷² ABMS also provides authorized Federal Reserve Bank personnel with a mechanism to monitor and control account activity for selected institutions.

ABMS has the capability to reject or intercept certain transactions affecting an institution's account. This capability is called "real-time monitoring." The Reserve Banks use real-time monitoring to prevent selected institutions from effecting certain transactions if their accounts lack sufficient funds to cover the payments. Institutions are generally notified before a Reserve Bank begins monitoring their accounts in real time.

If an institution's account is monitored in the "reject" mode in ABMS, any outgoing Fedwire funds transfer or NSS transaction that exceeds its available funds is rejected back to the sending institution. The institution can initiate the transaction again once sufficient funds become available in its Federal Reserve account.⁷³ If an institution's Federal Reserve account is monitored in the "intercept" mode, sometimes referred to as the "pend" mode, outgoing funds transfers that would cause an overdraft in excess of the threshold will not be processed but will be held for review by the Reserve Bank. These intercepted transactions will be rejected or released by the Reserve Bank once funds are available in the institution's account. Reserve Banks will normally be in direct contact with an institution if any of its funds transfers are intercepted.

ABMS calculates balances three ways so that institutions and Reserve Bank staff can take into account the effect of the daylight overdraft posting rules on an institution's payment activity. The daylight overdraft (DLOD) balance in ABMS reflects the balance in the account according to the transaction posting rules described in the PSR policy and is usually equivalent

⁷² ABMS receives transaction information from the Fedwire Funds Service, the Fedwire Securities Service, and the National Settlement Service in real time; information on cash, check, and Treasury Investment Program transactions at 5-minute intervals; and information on prefunded ACH credit originations every 15 minutes. ABMS receives updated collateral information, including an institution's value of collateral available for daylight overdraft purposes, from the Federal Reserve's Collateral Management System on a near-real-time basis. ABMS will use the collateral available for daylight overdraft purposes to calculate the institution's collateralized and uncollateralized daylight overdraft balances, which will also be updated on a near-real-time basis. For more information on collateral available for daylight overdraft purposes, see the Collateral section (III) of this Guide.

⁷³ The institution will be required to prefund its ACH credit originations, as the total amount of all ACH credit item originations will be deducted from its account when the Reserve Bank processes the items. If the total amount of all ACH credit item originations exceeds an institution's account balance, none of the items will be processed. Further information on ACH prefunding is available in Operating Circular 4: http://www.frbservices.org/regulations/operating_circulars.html.

to the balance measured by DORPS.⁷⁴ In a few instances; however, the DLOD balance in ABMS may be slightly different from the account balance recorded in DORPS because DORPS takes an end-of-minute “snapshot,” while ABMS continuously updates balances as transactions are processed. In addition, the DLOD balance in ABMS may be different from the account balance in DORPS if transactions are processed late.

A second balance calculated by ABMS, the account (ACCT) balance, reflects the sum of all transactions posted to ABMS regardless of the daylight overdraft posting rules.

A third balance, the available funds (AVL FNDS) balance, shows funds available to an institution that include its daylight overdraft capacity. The AVL FNDS balance is calculated by using either the DLOD balance or the ACCT balance and then adding the totals for the institution’s net debit cap, any applicable collateralized capacity, and any other amounts memo posted to the institution’s account.⁷⁵ Reserve Banks may choose to monitor institutions based on either the ACCT balance or DLOD balance, depending on the circumstances.

In addition, institutions can monitor their collateral balances and collateralized and uncollateralized daylight overdraft positions in near-real-time in ABMS or AMI. The collateral available for daylight overdraft purposes field shows the value of Federal Reserve collateral that an institution has pledged to its Reserve Bank that is not securing an extension of credit (including a discount window loan).⁷⁶ This value is compared with an institution’s daylight overdraft balance at the end of each minute in near-real-time to determine whether the institution’s overdraft is collateralized. If the institution’s value of collateral available for daylight overdraft purposes meets or exceeds the institution’s daylight overdraft for a given minute, that minute of overdraft is considered fully collateralized and is reflected in the institution’s collateralized daylight overdraft value. If the institution’s daylight overdraft balance exceeds the institution’s value of collateral available for daylight overdraft purposes, the difference between these values is reflected in the institution’s uncollateralized daylight overdraft field, and this value would be used in the calculation of that institution’s fees.⁷⁷ For more information on collateral under the PSR policy, see section III (Collateral) of this document.

D. Ex post Monitoring

At the end of each reserve maintenance period during which an institution has incurred a daylight overdraft, DORPS generates reports that reflect an institution’s overdraft activity for the reserve maintenance period. These reports, which are available to institutions through AMI, provide institutions with useful information for monitoring daylight overdrafts, such as

⁷⁴ The schedule of posting rules is located in part II of the PSR policy, available at http://www.federalreserve.gov/paymentsystems/psr_policy.htm#daylightdef.

⁷⁵ Reserve Banks use the memo post function of ABMS to post transactions to ABMS that may not be passed to the Federal Reserve Bank’s accounting system until later in the day (for example, cash shipments).

⁷⁶ Collateral available for daylight overdraft purposes does not necessarily reflect the amount of collateral available for new lending or available for withdrawal.

⁷⁷ For more information on how the Federal Reserve calculates daylight overdraft fees, see the Daylight Overdraft Fees section (V) of this Guide.

overdrafts in excess of the institution's net debit cap, and end-of-minute balances for a particular day. Reserve Banks may also provide institutions with reports in the process of counseling institutions that have incurred daylight overdrafts in excess of their daylight overdraft capacity. For more information on daylight overdraft reports, see the Federal Reserve's Account Management Guide available at <http://www.frbservices.org/Accounting/pdf/amg.pdf>.

V. Daylight Overdraft Fees

This section describes how daylight overdraft charges are calculated and assessed for institutions that incur uncollateralized daylight overdrafts and have regular access to the discount window. In addition, this section identifies types of institutions that are not eligible for daylight overdrafts and are charged a penalty fee for any use of unauthorized intraday credit.

A. Calculation of Daylight Overdraft Charges

Under the PSR policy, institutions with regular access to the discount window are only charged for uncollateralized daylight overdrafts. In order to determine whether any portion of an institution's overdraft was uncollateralized, the Federal Reserve, through its automated applications, maintains minute-by-minute information on account holders' daylight overdraft and collateral balances.

Throughout the Fedwire operating day, DORPS records each institution's end-of-minute daylight overdraft.⁷⁸ At the end of the day, DORPS collects a file from CMS containing information on each institution's end-of-minute value of Federal Reserve collateral, less extensions of credit from the discount window. This value, which is identified as an institution's "collateral available for daylight overdraft purposes," is used by DORPS in its pricing calculations.⁷⁹ DORPS compares the institution's end-of-minute daylight overdraft with its value of collateral available for daylight overdraft purposes to determine the extent to which an institution's daylight overdraft is uncollateralized.

After DORPS determines which minutes from the operating day an institution incurred uncollateralized daylight overdrafts, it sums the value of the uncollateralized overdraft for those minutes and averages that value over the number of minutes in the Fedwire operating day. DORPS applies the fee rate to the institution's daily uncollateralized overdraft figure to calculate the institution's daily overdraft charge. At the end of each reserve maintenance period, DORPS sums the daily charges over the two-week period, applies the fee waiver for eligible institutions, and provides institutions with a report of their reserve maintenance period charges.

B. Example of Daylight Overdraft Charge Calculation

Figure V-1 below provides an example of how DORPS uses ex post end-of-minute balance and collateral information to calculate an institution's charges. In the example, the institution's daylight overdraft balance and collateral levels change intraday. For simplicity, the illustration shows only a few minutes of the Fedwire operating day and assumes that the institution has similar activity each day of the two-week reserve maintenance period.

⁷⁸ Institutions that have an electronic connection to the Federal Reserve's Fedwire Funds Transfer Service are able to access and view their daylight overdraft balance in real-time, either through ABMS or AMI. For more information on monitoring, refer to the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁷⁹ Institutions can access information regarding their collateral available for daylight overdraft purposes through ABMS or AMI throughout the day. For more information on monitoring, refer to the Daylight Overdraft Monitoring and Management section (IV) of this Guide. For more information on collateral, see the Collateral section (III) of this Guide.

1. Calculation of end-of-minute uncollateralized daylight overdraft

DORPS calculates an institution's end-of-minute uncollateralized daylight overdraft by comparing the institution's end-of-minute daylight overdraft with the institution's value of collateral available for daylight overdraft purposes. Once DORPS has calculated the value of the uncollateralized overdraft for each minute of the Fedwire operating day (1,291 minutes), DORPS sums these values.⁸⁰ All end-of-minute uncollateralized overdrafts incurred during the Fedwire day, including those not exceeding an institution's net debit cap, are included in the calculation. Positive account balances on a given day are set to zero and do not offset any overdrafts incurred that day in computing the average daylight overdraft amount.

2. Calculation of daily daylight overdraft charge

DORPS calculates the institution's average daily uncollateralized overdraft by dividing the sum of the institution's end-of-minute uncollateralized negative Federal Reserve account balances by the total number of minutes in the scheduled Fedwire operating day.⁸¹

DORPS calculates average daily fees by multiplying the average daily uncollateralized overdraft by the effective daily rate. The effective daily rate is calculated using an annual rate of 50 basis points, quoted on the basis of a 24-hour day and a 360-day year.⁸² The annual rate is converted to an effective annual rate for the standard Fedwire operating day by multiplying it by the fraction of the day that Fedwire is scheduled to be open, currently 21.5 hours out of 24. Thus, the current effective annual rate charged for overdrafts is 44.79 basis points (50 basis points x 21.5/24 hours). The effective annual rate is converted to an effective daily rate by multiplying it by 1/360.⁸³

3. Calculation of reserve maintenance period charge and application of fee waiver

At the end of each reserve maintenance period, which is generally 10 business days, DORPS sums the daily charges for each institution. Eligible institutions will receive a fee waiver of up to \$150 per reserve maintenance period. Institutions that incur two-week charges under \$150 will not be assessed any fees, and institutions that incur two-week charges over \$150 will have their gross fees reduced by \$150.⁸⁴ In the example, after DORPS applies the fee waiver, the institution's charges for this reserve maintenance period are \$22.90.

⁸⁰ Figure V-1 shows only a few minutes of the Fedwire operating day (2:00 p.m. ET to 2:05 p.m. ET) for simplicity.

⁸¹ The standard operating day for the Fedwire funds transfer system currently extends from 9:00:00 p.m. ET the preceding calendar day to 6:30:59 p.m. ET, a total of 1,291 minutes. The occasional extensions of Fedwire beyond the standard 21.5-hour day do not affect the number of minutes used in computing the average overdraft.

⁸² Institutions with regular access to the discount window are charged 50 basis points (annual rate) for uncollateralized overdrafts. Institutions that do not have regular access to the discount window, such as Edge Act and agreement corporations, bankers' banks that have not waived their exemption from reserve requirements, limited-purpose trust companies, GSEs, are subject to the penalty fee of 150 basis points (annual rate).

⁸³ The effective daily daylight-overdraft rate is truncated to .0000124.

⁸⁴ The waiver shall not result in refunds or credits to an institution and cannot be carried to another reserve-maintenance period. The fee waiver is not available to institutions that do not have regular access to the discount window, such as Edge Act and agreement corporations, bankers' banks that have not waived their exemption from reserve requirements, limited-purpose trust companies, and GSEs.

Figure V-1: Example of Daylight Overdraft Charge Calculation

Calculate an institution's end-of-minute uncollateralized daylight overdraft				
Row	Time	Daylight overdraft balance (in millions)	Collateral available for daylight overdraft purposes (in millions)	Uncollateralized daylight overdraft (in millions)
1	2:00 PM	\$100	\$50	\$0
2	2:01 PM	\$0	\$50	\$0
3	2:02 PM	(\$800)	\$100	\$700
4	2:03 PM	(\$100)	\$100	\$0
5	2:04 PM	(\$600)	\$100	\$500
6	2:05 PM	(\$600)	\$0	\$600
7	<i>Sum of end-of-minute uncollateralized daylight overdraft</i>			\$1,800
Calculate an institution's daily charge				
A. Average daily uncollateralized daylight overdraft				
$\frac{\text{Sum of end-of-minute uncollateralized overdrafts for one day} = \$1,800,000,000}{\text{official Fedwire day} = 21.5 \text{ hours (or 1,291 minutes)}} = \frac{\$1,800,000,000}{1,291} = \$1,394,268$				
B. Daily daylight overdraft charge				
$\begin{array}{r} \text{average daily uncollateralized overdraft} = \\ \text{multiplied by effective daily rate}^{85} = .0050 \times (21.5/24) \times (1/360) = \end{array} \begin{array}{r} \$1,394,268 \\ \times \underline{.0000124} \\ \$17.29 \end{array}$				
Calculate an institution's reserve maintenance period charge and apply the fee waiver				
A. Gross reserve maintenance period overdraft charge				
$\text{Sum of daily overdraft charges} = \$17.29 \times 10 \text{ days per reserve maintenance period}^{86} = \172.90				
B. Subtract the waiver from the gross reserve maintenance period overdraft charge ⁸⁷				
$\begin{array}{r} \text{less } \$150 \text{ fee waiver} \\ \hline \text{--- } \$150.00 \\ \hline \text{\$22.90} \end{array}$				

⁸⁵ The effective daily daylight-overdraft rate is truncated to .0000124.

⁸⁶ The example assumes that the institution has had identical activity for each day of the reserve maintenance period; the daily charge is multiplied by ten to calculate the reserve maintenance period charge.

⁸⁷ The example assumes that the institution has regular access to the discount window and is not an Edge Act and agreement corporation, bankers' bank that has not waived its exemption from reserve requirements, limited-purpose trust company, GSE, or international organization.

C. Billing and Adjustments

1. Assessment of charges

At the end of each reserve maintenance period, the Reserve Bank provides a report of charges to each institution that was assessed fees in that period.⁸⁸ Eligible institutions whose reserve maintenance period charges were under \$150 will receive a report of their use of uncollateralized daylight overdrafts, but their assessed fees will be waived. The Federal Reserve makes an assessment of final charges to the institution's Federal Reserve account at the end of the reserve maintenance period following the reserve maintenance period in which charges are assessed. Institutions may not use earnings credits to offset overdraft charges.

The Federal Reserve may make adjustments to daylight overdraft charges in limited circumstances, such as errors, incorrect accounting entries, or cases of extended computer or communications operational difficulties at a Reserve Bank. Reserve Banks, however, will not make adjustments to compensate for institutions' internal problems.

D. Institutions Subject to Daylight Overdraft Penalty Fees

Under the PSR policy, institutions that have Federal Reserve accounts but lack regular access to the discount window are not eligible for a positive daylight overdraft cap and may not incur daylight overdrafts. These institutions include Edge Act and agreement corporations, bankers' banks that have not waived their exemption from reserve requirements, limited-purpose trust companies, government-sponsored enterprises, and certain international organizations. Such institutions are subject to the penalty fee, which is assessed on all daylight overdrafts, collateralized or uncollateralized.

The penalty fee is intended to provide a strong incentive for these institutions to avoid incurring any daylight overdrafts in their Federal Reserve accounts. The annual penalty rate is 150 basis points, which is equal to the regular daylight overdraft fee of 50 basis points plus a penalty of 100 basis points. The penalty fee is calculated and assessed in the same manner as the daylight overdraft fee charged to institutions with discount window access.⁸⁹ Penalty fee-paying institutions that incur overdrafts do not receive a zero fee for collateralized overdrafts or the fee waiver and are not eligible for fully collateralized cap breach waivers.⁹⁰ These institutions are subject to a minimum fee of \$25 for any reserve maintenance period in which they incur a fee.⁹¹

⁸⁸ Institutions that incur overdrafts that are sufficiently large to result in daylight overdraft fees will receive an Advice of Daylight Overdraft Charges Report at the close of the reserve maintenance period in which the overdrafts occurred. The report shows the average uncollateralized overdraft for each day on which the fees occurred. An example of the report can be viewed in the *Account Management Guide* at www.frb services.org/Accounting/pdf/amg.pdf.

⁸⁹ The daily penalty charge is equal to the effective daily penalty rate multiplied by the average total overdrafts (uncollateralized and collateralized) for the day. The effective daily penalty rate is calculated by multiplying the annual penalty rate by the portion of the day during which the Fedwire Funds normally operates (21.5 hours out of 24 hours), divided by 360 days.

⁹⁰ For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

⁹¹ For more information regarding these types of accounts, see the Special Situations section (VI) of this guide.

VI. Special Situations

This section discusses the unique considerations associated with U.S. branches and agencies of foreign banks, and a number of entities that are not eligible for regular access to the discount window, and therefore do not have access to intraday credit.

A. U.S. Branches and Agencies of Foreign Banks⁹²

In general, U.S. branches and agencies of foreign banks are treated in the same manner as domestic institutions under the Federal Reserve's PSR policy. There are some unique considerations, however, that affect how the policy applies to U.S. branches and agencies of foreign banks. These situations are discussed below and in the self-assessment procedures in section VII of the guide.

Net debit caps for foreign banks are calculated generally in the same manner as they are calculated for domestic institutions. Net debits caps are calculated by multiplying an institution's cap multiple by an institution's capital measure. However, the determination of the capital measure, known as the U.S. capital equivalency, depends on the foreign banking organization's (FBO's) strength of support assessment (SOSA) ranking and on whether the bank is a financial holding company (FHC).⁹³

1. U.S. capital equivalency

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. The U.S. capital equivalency equals

- 35 percent of capital for FBOs that are financial holding companies (FHCs), or
- 25 percent of capital for FBOs that are not FHCs and are ranked a SOSA 1, or
- 10 percent of capital for FBOs that are not FHCs and are ranked a SOSA 2, or
- 5 percent of "net due to related depository institutions" for FBOs that are not FHCs and are ranked a SOSA 3.⁹⁴

⁹² A U.S. branch or agency is a branch or agency of a foreign banking organization (FBO) located in the United States.

⁹³ 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.

The Gramm-Leach-Bliley Act (Public Law 106-102, 113 Stat. 1338 (1999)) defines an FHC 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, all depository institutions controlled by the bank holding company must be well capitalized and well managed. 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.

⁹⁴ This item is reported on the foreign bank family's quarterly Report of Assets and Liabilities of U.S. Branches and Agencies of Foreign Banks (Federal Financial Institution Examination Council report FFIEC 002).

U.S. branches and agencies of foreign banks that wish to establish a positive net debit cap category and are an FHC or are ranked SOSA 1 or 2 are required to file the Annual Daylight Overdraft Capital Report for U.S. Branches and Agencies of Foreign Banks (FR 2225).⁹⁵ A net debit cap, or any extension of intraday credit, is granted to an institution at the discretion of the Reserve Bank. In limited circumstances, a Reserve Bank may grant a net debit cap or extend 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. An institution should contact its Reserve Bank for guidance in these situations.

As in the case of U.S. institutions, the ARB must have the ability to assess regularly the financial condition of a foreign bank in order to grant the institution a daylight overdraft cap other than zero. The ARB may require information regarding Tier I and total risk-based capital ratios for the consolidated foreign bank.⁹⁶ The ARB may require U.S. branches and agencies of foreign banks seeking a positive daylight overdraft cap (exempt, de minimis, or self-assessed cap categories) to provide capital ratios at the time the cap is established and annually thereafter. Workpapers for capital ratios should be maintained at a designated U.S. branch or agency and are subject to review by the institution's primary supervisor. The Federal Reserve regards capital information provided to the ARB in connection with an institution's daylight overdraft cap as confidential and will share this information only with an FBO's primary regulator and home country supervisor (5 U.S.C. § 552(b)).⁹⁷ Institutions are also expected to treat their cap as confidential and should not disclose this information for marketing purposes. If an institution believes that it must disclose its cap under securities law, the Federal Reserve does not prohibit such disclosure.

An FBO that is an 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 up to 100 percent times the net debit cap multiple. See section II.C. for the streamlined procedure.

2. Allocation of caps

The Federal Reserve monitors the daylight overdrafts of U.S. branches and agencies of foreign banks on a consolidated basis.⁹⁸ Each foreign bank family, consisting of all of the U.S. branches and agencies of a particular foreign bank, has a single daylight overdraft cap. Like other institutions with accounts in more than one Federal Reserve District, intraday account

⁹⁵ A copy of the FR 2225 report and instructions is available at www.federalreserve.gov/boarddocs/reportforms/default.cfm.

⁹⁶ Descriptions of capital measures, by type of institution, and related regulatory reports can be found in appendix C.

⁹⁷ For more information on the Freedom of Information Act, see <http://www.federalreserve.gov/generalinfo/foia/foiastat.cfm>.

⁹⁸ In early 2012, the Federal Reserve will no longer consolidate FBO accounts across Reserve Banks for the purpose of assessing compliance with the PSR policy. State ring-fencing laws may diminish the ability of a Reserve Bank to perfect collateral pledged with another Reserve Bank, thus reducing the protection provided by the collateral against an intraday credit exposure. FBOs will have two options for managing their accounts 1) function all activity through a single master account or 2) manage daylight overdrafts and collateral separately for each branch or agency. Reserve Banks will contact FBOs with more details prior to the change.

balances of all the U.S. branches and agencies in a foreign bank family are added together for purposes of monitoring against the daylight overdraft cap, as described in section III.

For real-time monitoring purposes, however, a foreign bank that has offices in more than one District may choose to allocate a portion of its net debit cap to branches or agencies in Districts other than that of the ARB.⁹⁹ Unless a foreign bank family instructs otherwise, the Federal Reserve will assign the dollar value of the family's single-day daylight overdraft cap to the branch or agency located in the Federal Reserve District of the ARB. Using a format similar to the sample letter in appendix B, the foreign bank family may indicate to the ARB the dollar amount to be allocated to offices in other Districts. The foreign bank family should update or confirm the allocation annually with its ARB. Any amount that is not allocated to offices in other Districts will be assigned to the branch or agency in the District of the ARB.

If a foreign bank has an approved amount of maximum daylight overdraft capacity, only the uncollateralized component of the capacity may be allocated. The collateralized capacity will be available at the Reserve Bank that approved the maximum daylight overdraft capacity and holds the collateral.

B. Industrial Banks and Industrial Loan Companies Subject to the BHCA Exception

Industrial banks and industrial loan companies (ILCs) subject to the Bank Holding Company Act (BHCA) may not incur daylight overdrafts on behalf of affiliates, except in three circumstances.¹⁰⁰ First, the prohibition does not extend to overdrafts that result from inadvertent computer or accounting errors beyond the control of the nonbank bank. Second, ILCs are permitted to incur overdrafts on behalf of an affiliate that is a primary U.S. government security dealer, provided such overdrafts are fully collateralized. Third, overdrafts incurred in connection with an activity that is financial in nature are also permitted.¹⁰¹ An ILC loses its exemption from the definition of bank under the BHCA if it incurs prohibited overdrafts.

ILCs must comply with the PSR policy regarding net debit caps in the same manner as other institutions and are subject to daylight overdraft fees, calculated using the same methods as those applied to other institutions. In addition to the regular monitoring for these institutions, the Federal Reserve monitors ILCs that are subject to BHCA exception using a separate formula under Regulation Y to calculate intraday Federal Reserve account positions.

⁹⁹ Because of their unique characteristics, FBOs are monitored at the cap level in real time. When an institution's account is monitored in real time, certain transactions (outgoing Fedwire funds transfers or National Settlement Service transactions) are rejected if such transactions exceed the cap.

¹⁰⁰ In 1987, Congress enacted the Competitive Equality Banking Act (CEBA) to close the so-called nonbank bank loophole that existed in the BHCA (Pub.L. No. 100-86, 101 Stat.552). CEBA expanded the definition of "bank" in the BHCA to include any FDIC-insured bank (regardless of the activities it conducts) and any banking institution that both offers transaction accounts and makes commercial loans (regardless of whether it is FDIC-insured).

References to an ILC include an industrial bank.

For this purpose, an affiliate is any company that controls the ILC, is controlled by it, or is under common control with it.

¹⁰¹ Information concerning the definition of "financial in nature" can be found within the Federal Reserve's Regulation Y, located at <http://www.federalreserve.gov/regulations/regref.htm#y>.

If an ILC incurs overdrafts that are prohibited, the Reserve Bank will request that the institution provide detailed information about activity processed for affiliate accounts, so that it can determine whether the overdraft was incurred on behalf of an affiliate. If the overdraft was on behalf of an affiliate that is a primary U.S. government security dealer, the ILC is required to demonstrate that the overdraft was fully collateralized. If the overdraft was on behalf of an affiliate and was financial in nature, the ILC is required to demonstrate the purpose of the overdraft as defined by section 4(k)(5) of the BHCA. ILCs that do not maintain accounts for affiliates may file a letter with the Reserve Bank on an annual basis certifying that they do not currently have affiliate accounts and that they will notify the Reserve Bank promptly should that status change. (Appendix B provides a sample certification letter.)

C. Institutions Subject to Daylight Overdraft Penalty Fees

Under the PSR policy, institutions that have Federal Reserve accounts but are not eligible for regular access to the discount window are not eligible for a positive daylight overdraft cap. These institutions should not incur any daylight overdrafts. If such an institution were to incur an overdraft, however, the Reserve Bank would generally require it to pledge collateral sufficient to cover the peak amount of the overdraft for a specified period. If an institution that is ineligible to incur daylight overdrafts pledges collateral, or already has collateral pledged to its FR account, its pledge of collateral does not authorize the institution to incur daylight overdrafts in the future. In addition, this collateral will not be used in the calculation to offset fees, if such an institution should incur an overdraft.¹⁰²

The institutions described below are subject to a penalty fee on any daylight overdrafts incurred in their Federal Reserve accounts. The penalty fee is intended to provide a strong incentive for these institutions to avoid incurring any daylight overdrafts in their Federal Reserve accounts. The penalty fee is assessed at a rate equal to the regular daylight overdraft fee of 50 basis points, plus 100 basis points, for a total penalty fee of 150 basis points (annualized, 24-hour rate). The penalty fee is calculated and assessed in the same manner as the daylight overdraft fee charged other institutions, as described in section V, with the following exceptions: These institutions are not eligible for the \$150 fee waiver, and if the calculated charges in any two-week reserve maintenance period are less than \$25, a minimum fee of \$25 will be charged.

1. Edge Act and agreement corporations¹⁰³

Edge Act and agreement corporations are not eligible for regular access to the discount window and should refrain from incurring daylight overdrafts in their Federal Reserve accounts. In the event that any daylight overdrafts occur, the Edge Act or agreement corporation must post collateral to cover the overdrafts. Edge Act and agreement corporations that have branches in more than one Federal Reserve District are monitored on a consolidated basis.

¹⁰² Institutions that are not eligible for regular access to the discount window are also not eligible for fully collateralized cap breach waivers. For more information on fully collateralized cap breach waivers, refer to part B of the Daylight Overdraft Monitoring and Management section (IV) of this Guide.

¹⁰³ 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 of Governors under section 25 of the Federal Reserve Act (12 USC 601-604(a)).

2. *Bankers' banks*¹⁰⁴

Bankers' banks, including corporate credit unions, are exempt from reserve requirements and are not eligible for regular access to the discount window. Bankers' banks may voluntarily waive their exemption from reserve requirements and thus become eligible for regular access to the discount window. Such bankers' banks would be free to establish net debit caps and would be subject to the PSR policies in the same manner as other institutions. Bankers' banks that have not waived their exemption from reserve requirements should refrain from incurring overdrafts and must post collateral to cover any daylight overdrafts they do incur.

3. *Limited-purpose trust companies*¹⁰⁵

The Federal Reserve Act permits the Board to grant Federal Reserve membership to limited-purpose trust companies subject to conditions the Board may prescribe. As a general matter, member limited-purpose trust companies do not accept reservable deposits and are not eligible for regular discount-window access. Limited-purpose trust companies that maintain Federal Reserve accounts should refrain from incurring overdrafts and must post collateral to cover any daylight overdrafts that they incur.

4. *Government-sponsored enterprises (GSEs) and international organizations*¹⁰⁶

The Reserve Banks are fiscal agents for certain GSEs and international organizations in accordance with federal statutes. These institutions are not subject to reserve requirements and are not eligible for 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.

¹⁰⁴ For the purposes of the Federal Reserve's PSR policy, a bankers' bank is a financial institution that is not required to maintain reserves under the Federal Reserve'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)).

¹⁰⁵ For the purposes of the PSR policy, a limited-purpose trust company is a trust company that, because of limitations on its activities, does not meet the definition of "depository institution" in section 19(b)(1)(A) of the Federal Reserve Act (12 USC 461(b)(1)(A)).

¹⁰⁶ GSEs include 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 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 Reserve Banks ceased to act as fiscal agents for new issues of Sallie Mae securities upon its privatization on December 29, 2004. The new Sallie Mae is not considered a GSE.

VII. Self-Assessment Procedures

This section provides information and guidelines for institutions choosing to perform a self-assessment to establish a net debit cap in the average, above average, or high categories.¹⁰⁷ If an institution elects to establish a net debit cap through a self-assessment it must analyze and evaluate four components:

- Creditworthiness
- Intraday funds management and control
- Customer credit policies and controls
- Operating controls and contingency procedures.

The institution must assign a rating based on its assessment to each of the above components and then combine the ratings to determine the appropriate net debit cap category. Part E of this section provides a matrix that must be used to combine the four components into a single rating. Appendix A contains worksheets that should be used in conducting an assessment. A Reserve Bank reserves the right to evaluate independently the four factors of an institution's self-assessment. If the Reserve Bank arrives at an overall rating that is lower than that determined by the institution, the Reserve Bank's evaluation will determine the institution's cap category. In addition, section II of this manual provides information on filing a resolution to establish the cap once the self-assessment has been completed, and appendix B provides sample resolutions.

A. Creditworthiness Component

For most institutions, the appropriate net debit cap category is principally determined by the institution's most-recent supervisory ratings and, for domestically chartered institutions, the institution's capital category.¹⁰⁸ In the self-assessment, an institution's creditworthiness is assigned one of the following ratings: excellent, very good, adequate, or below standard. An excellent or a very good rating indicates that an institution has demonstrated a sustained level of financial performance above its peer group norm. As a general matter, fundamentally sound institutions that are experiencing only modest weakness will receive a rating of adequate. The financial performance of such institutions is usually at or just slightly below the peer norm.

¹⁰⁷ An institution's cap category in combination with an institution's capital measure determines its net debit cap. Domestically chartered institutions use 100 percent of their risk-based capital as their capital measure. U.S. branches or agencies of foreign banks use a percentage of their worldwide capital, based on their financial holding company (FHC) status and their SOSA ranking, as their capital measure. For more information on the calculation of U.S. branch and agency capital measure calculation, refer to the Special Situations section (VI) of this Guide.

¹⁰⁸ For the purposes of the self-assessment procedures, a domestically chartered institution's capital category is defined by the Federal Deposit Insurance Act.

If an institution's creditworthiness rating is adequate or higher, it may then proceed to rate the other three components in the self-assessment process, subject to the provisions regarding affiliated entities, discussed below. The institution's assessment of the other three key components will determine whether its composite rating will be lower than or equal to that determined by the creditworthiness component. The rating should be recorded in the assessment worksheet found in appendix A.

Matrix approach to assessing creditworthiness

In most instances, an institution's creditworthiness component is determined by the creditworthiness matrix, which translates an institution's supervisory rating and, for domestically chartered institutions, the institution's capital category, into a creditworthiness assessment. This approach is designed to simplify the process of assessing creditworthiness. Domestically chartered institutions should use table VII-1 to determine their creditworthiness component, and U.S. branches and agencies of foreign banks should use table VII-2.

Certain conditions, however, may affect the creditworthiness of the institution and, as a result, the Reserve Bank may require the institution to perform a full assessment of its creditworthiness. A full assessment of creditworthiness includes an assessment of capital adequacy, key performance measures (including asset quality, earnings performance, and liquidity), and the condition of affiliated institutions. The institution's primary regulator may review the full assessment. The Reserve Bank may, in consultation with the primary supervisor, deny an institution access to intraday credit or modify the institution's net debit cap. Examples of certain conditions that warrant an institution's performing a full assessment of its creditworthiness, regardless of an institution's supervisory ratings or capital category, are

- If the institution is a financial holding company (FHC) and is in a cure period¹⁰⁹
- Any significant developments that may materially affect the financial condition or supervisory assessment of the institution.

Procedures for completing a full assessment of creditworthiness are contained in appendix A, along with the worksheets that may be used for this process. In its self-assessment submission, an institution performing a full assessment of creditworthiness must cite the critical factors that would support a proposed creditworthiness rating differing from that indicated by the matrix approach. For example, such factors might include the establishment of a firm plan to achieve a level of capital commensurate with a designation of adequately capitalized, which has been approved by the institution's primary supervisor and Reserve Bank. Significant enhancements in the institution's available liquidity or reductions in its problem assets could also be used to support a higher rating in the context of a full assessment of creditworthiness. However, the reasons for greater emphasis on other factors should be well documented in the submission by the institution's management. Regardless of the results of the full assessment of creditworthiness, the creditworthiness rating achieved is not necessarily related to or reflective of

¹⁰⁹ A cure period is a provisional time period where an institution is allowed to resolve issues related to its noncompliance with regulatory requirements.

the rating that would result from a regulatory examination.

Table VII – 1: Creditworthiness Matrix for Domestically Chartered Institutions*

Capital category	Supervisory composite rating ¹¹⁰			
	<i>Strong</i>	<i>Satisfactory</i>	<i>Fair</i>	<i>Marginal or unsatisfactory</i>
<i>Well capitalized</i>	Excellent	Very good	Adequate	Below standard
<i>Adequately capitalized</i>	Very good	Very good	Adequate	Below standard
<i>Undercapitalized</i>	**	**	Below standard	Below standard
<i>Significantly or critically undercapitalized</i>	Below standard	Below standard	Below standard	Below standard

*If an institution has affiliates, the supervisory composite rating incorporates an assessment of the condition of affiliates. Appendix A contains worksheets that should be used to incorporate the condition of affiliates into the supervisory composite rating.

** Institutions that fall into this category should perform a full assessment of creditworthiness. A full assessment of creditworthiness includes an assessment of capital adequacy, key performance measures (including asset quality, earnings performance, and liquidity), and the condition of affiliated institutions.

Under the matrix approach, a domestically chartered institution with capital ratios within the category of well capitalized or adequately capitalized and with a supervisory composite rating of strong, satisfactory, or fair will generally qualify for a positive net debit cap category. An institution that has received a supervisory rating of marginal or unsatisfactory, or has capital ratios within the significantly or critically undercapitalized category would receive a *below standard* rating for creditworthiness and would not qualify for a positive net debit cap. A *below standard* rating would also be assigned if an institution received a supervisory rating of fair and its capital ratios fall within the undercapitalized category. In these situations, the primary supervisor will have communicated to the institution's directors and management its concerns with respect to capital, asset quality, or other less-than-satisfactory conditions. Supervisory actions will also have been initiated requiring prompt corrective action in order to prevent further impairment of the institution's viability. For institutions whose supervisory composite rating is

¹¹⁰ Supervisory composite ratings, such as the Uniform Bank Rating System (CAMELS), are generally assigned on a scale from 1 to 5, with 1 being the strongest rating. Thus, for the purposes of the Creditworthiness Matrix, a supervisory rating of 1 is considered Strong; a rating of 2 is considered Satisfactory; a rating of 3 is considered Fair; and so on.

Strong or Satisfactory and whose capital ratios fall within the category of undercapitalized, the institution must perform a full assessment of creditworthiness.

Table VII – 2: Creditworthiness matrix for U.S. branches and agencies of foreign banks

SOSA ranking ¹¹¹	U.S. Operations Supervisory Composite Rating*			
	<i>Strong</i>	<i>Satisfactory</i>	<i>Fair</i>	<i>Marginal or unsatisfactory</i>
<i>SOSA 1</i>	Excellent	Very good	Adequate	Below standard
<i>SOSA 2</i>	Adequate	Adequate	**	Below standard
<i>SOSA 3</i>	Below standard	Below standard	Below standard	Below standard

* When the FBO operates multiple branches and agencies in the United States, the U.S. Operations Supervisory Composite Rating should reflect the entire U.S. presence of the FBO. Because of the availability of supervisory ratings that reflect an FBO's entire U.S. presence, FBOs do not have to use appendix A to incorporate an affiliate's financial condition into the U.S. Operations Supervisory Rating.

** Institutions that fall into this category should perform a full assessment of credit worthiness. A full self-assessment includes an assessment of capital adequacy, key performance measures (including asset quality, earnings performance, and liquidity), and the condition of affiliated institutions.

U.S. branches and agencies of foreign banks that are ranked SOSA 1 or 2 and that have a U.S. Operations Supervisory Composite Rating of strong, satisfactory, or fair will generally qualify for a positive net debit cap. However, institutions that are ranked SOSA 2 and that have a U.S. Operations Supervisory Composite Rating of fair will have to perform a full assessment of creditworthiness in order to qualify for a positive net debit cap. An institution that has received a SOSA ranking of 3 or that has a U.S. Operations Supervisory Composite Rating of marginal or unsatisfactory would receive a below standard rating for creditworthiness and would not qualify for a positive net debit cap. In these situations, the primary supervisor will have communicated to the institution's directors and management its concerns with respect to capital, asset quality, or other less than satisfactory conditions.

Affiliated institutions

The Financial Institutions Reform, Recovery, and Enforcement Act of 1989 allows the

¹¹¹ In October 2000, Strength of Support Assessment (SOSA) rankings were made available to foreign banking organizations' (FBOs') management and the FBOs' home country supervisor. For full text, see SR Letter 00-14 (SUP), *Enhancements to the Interagency Program for Supervising the U.S. Operations of Foreign Banking Organizations*, October 23, 2000.

Federal Deposit Insurance Corporation (FDIC) to hold an insured institution liable for any losses incurred from the failure of a commonly controlled institution. Thus, an institution could become insolvent should the deposit insurer elect to assess the institution the costs incurred from a failed commonly controlled institution. For institutions that are affiliates of a multibank holding company, the creditworthiness rating would be affected if the condition of one or more of the commonly controlled institutions is deemed marginal or unsatisfactory by the primary supervisor and one or more of these institutions represents a material portion of the organization's consolidated assets or materially affects the organization's consolidated operations. Appendix A contains worksheets that should be used to incorporate the condition of affiliates into the supervisory composite rating. This situation may arise when a supervisory agency discloses material operating or financial weakness within the parent company, or affiliated institutions, that pose significant risk to an institution. When such situations arise, the Reserve Bank will assign the institution a zero cap.

If the parent company and related affiliates are in satisfactory condition, no further adjustment needs to be made to the results of the institution's self-assessment. Such findings will normally be supported by evidence that the holding company serves as a source of strength to the institution; that is, it is willing and able to provide capital contributions or other managerial and financial support to the institution. If the management performing the assessment does not have the information needed for assessing the condition of affiliated institutions, it should confer with the financial officers of the holding company.

U.S. branches and agencies of foreign banks

An FBO should undergo the same self-assessment process as a domestic bank in determining a net debit cap for its U.S. branches and agencies. U.S. branches and agencies of foreign banks, however, cannot be separated from the FBO. As a result, all of 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.

In addition, because many FBOs do not have the same management structure as U.S. institutions, the FBO may need to adjust its internal review of its self-assessment and cap category. If an FBO's board of directors has a more-limited role 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.

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.

Because the creditworthiness of the U.S. branch or agency of a foreign bank reflects the

creditworthiness of the entire organization and the condition of the U.S. operations, the Federal Reserve's PSR program uses SOSA rankings and U.S. Operations Supervisory Composite Ratings to determine an FBO's creditworthiness. In addition, if the ARB is unable to obtain adequate information regarding the creditworthiness of the institution, the ARB may assign the institution a net debit cap of zero.

Supervisory examination and rating information relating to domestically chartered institutions and foreign banking organizations

Examination reports and any correspondence from supervisory agencies regarding the institution's condition, including supervisory ratings and any of its components, are considered confidential information. Consequently, an institution's management must ensure that supervisory information is provided only to appropriate individuals within the institution, supervisory agencies, and Reserve Banks.

B. Intraday Funds Management and Control

The purpose of the analysis of intraday funds management and control is to assess an institution's ability to fund its settlement obligations on a daily basis across all payment systems in which it participates. The analysis requires the involvement of funds management, credit, and operations personnel and a review of payment activity over a period of time. A Payment Flows Worksheet is provided in appendix A (table A-3) to assist institutions in analyzing their daily payment activity.

To obtain a complete understanding of its funds movements, an institution should have a good understanding of its daily use of intraday credit as well as its use of intraday credit on average over two-week periods. The analysis should cover a sufficient period of time so that an institution can determine its peak demand for intraday credit and can also establish its average use of such credit. The more volatile an institution's payment activity, the longer the interval that should be selected for analysis. The analysis will need to incorporate all operational areas with access to payment systems. In addition to large-dollar funds and book-entry securities transfer activity, the review should address check clearing, ACH, currency operations, and other payment activity that results in relatively large-value settlement obligations. Thus, the analysis should not be limited to on-line payment systems, nor should it be limited to payment systems to which the institution has on-line access. Additionally, institutions with direct access to Fedwire or other payment systems in more than one Federal Reserve District must combine all of these access points into a single integrated analysis.

In performing the analysis, the institution should consider both liquidity demands and the potential credit risks associated with participation in each payment system. The institution's capacity to settle its obligations in both routine and nonroutine circumstances should be carefully assessed. A complete assessment of an institution's ability to control its intraday obligations extends, in many cases, beyond its ability to control its use of Federal Reserve intraday credit within the constraints of its net debit cap. Importantly, it also extends to the institution's ability to control its position across all payment systems to a level that permits it to fund its obligations on a regular basis. This type of assurance requires an institution to understand fully the nature of

its obligations and to establish systems that permit it to monitor daily activity and to respond to unusual circumstances.

Liquidity requirements

An institution participating on one or more large-dollar clearing and settlement systems must manage its position on each system, comply with net debit caps or other risk controls on each system, and assure itself that it has the capacity to satisfy all of its settlement obligations each business day. Other privately operated, large-dollar systems used by institutions include the Clearing House Interbank Payments System (CHIPS) and Depository Trust Company (DTC).

To assess its average daily liquidity requirements, an institution participating on multiple systems should determine the magnitude and relative importance of the various payments flowing through its Federal Reserve account as well as the payments flowing over each privately operated clearing and settlement system. For each payment service used, liquidity sources should be assessed to determine whether sufficient funding is regularly obtainable to satisfy obligations. In making this assessment, an institution should consider the creditworthiness of its counterparties as well as its customers. In addition, it should consider potential liquidity demands associated with the default of another participant in a privately operated clearing and settlement arrangement, such as CHIPS, DTC, a local check clearinghouse, a privately operated ACH system, an automated teller machine or point-of-sale network, or a credit card settlement arrangement. The institution's capability to obtain the necessary funding before the end of a business day in the event that a major counterparty, correspondent, customer, or member of a privately operated clearing and settlement system were to default on its net settlement obligations is particularly important in this assessment.

For example, if a customer that is an active user of payment services and also a significant user of intraday credit were unable to cover its settlement obligations, an institution would need to be able to fund those obligations by the close of business on the given settlement day. Similarly, if a participant in a local check clearing arrangement were to default on its settlement obligation, it is likely the settlement for that arrangement would be recast and each of the other participants in the arrangement would experience a change in its net settlement obligation. Participants in such arrangements should review the rules of the arrangement and determine the credit and liquidity risks to which they are exposed. In each of these cases, management should ensure that it has the capability to obtain the necessary funding late in the day to cover such unexpected occurrences.

Monitoring and control capabilities

Once the payment environment has been defined, the institution should evaluate its account monitoring capability. Organizations that have branches operating in more than one Federal Reserve District and have more than one Federal Reserve account, such as U.S. branches and agencies of foreign banks, should determine how the institution's net debit cap will be allocated across its accounts, and each office maintaining a Federal Reserve account should be responsible for monitoring its account within the constraint of its cap allocation. At the same time, one office should be assigned the responsibility to oversee consolidated payment activity, and the self-assessment should reflect the monitoring capability of the consolidated entity. The

designated office will be expected to be knowledgeable of the payment activity at all offices and be able to respond to questions received from the Federal Reserve or the institution's primary supervisor.

Monitoring capabilities may be classified as real-time or periodic. A real-time monitoring system accounts for each large-dollar funds transfer, book-entry securities transfer, and net settlement entry as it is sent or received and recognizes "off-line" activity, such as check and ACH, as data become available or in a manner that reflects the Federal Reserve's posting rules for payments settled through Federal Reserve accounts.¹¹² Institutions participating on multiple large-dollar systems may use several monitoring systems to track activity. A periodic monitoring system provides balance information reflecting Fedwire funds and book-entry securities transfer activity or other large-dollar transactions, such as CHIPS messages, plus off-line transactions at specific intervals, such as every fifteen minutes, thirty minutes, or hour.

C. Customer Credit Policies and Controls

The assessment of an institution's customer credit policies and controls requires the following distinct analyses:

- An analysis of the institution's policies and procedures for assessing the creditworthiness of its customers, its counterparties, and its correspondents
- An analysis of the institution's ability to monitor the positions of individual customers and to control the amount of intraday and interday credit extended to each customer.

The analyses require the involvement of both credit and operations personnel and should focus on the creditworthiness of all customers, including corporate and other institutions, that are active users of payment services. In addition, the creditworthiness of correspondents and all counterparties on privately operated clearing and settlement systems should be assessed.

For institutions that have arranged with a third-party service provider to process payments, it is recognized that certain operational controls may be established in either the funds and book-entry securities transfer operation of the service provider or the institution's own operation, depending on the nature of the arrangement. In any case, the standards for customer credit control and monitoring are to be applied uniformly and extended to the service provider's operation as appropriate.¹¹³

General credit policies

The assessment of credit policies is one of the most important components of the self-assessment because credit policies are essential in controlling the risks faced by the institution.

¹¹² The schedule of posting rules is located in part II of the PSR policy, available at http://www.federalreserve.gov/paymentsystems/psr_policy.htm.

¹¹³ For more information, please see *Outsourcing of Information and Transaction Processing*, SR Letter 00-4, February 29, 2000.

The purpose of this analysis is to evaluate how effectively an institution controls the credit risk to which it is exposed in extending interday and intraday credit in connection with the provision of payment services to customers that maintain accounts with the institution. The section also addresses the credit risk faced by the institution from correspondents and counterparties on privately operated clearing and settlement arrangements. There are several elements to the analysis. First, the institution's formal credit policies should be assessed. Second, customers that are active users of payment services should be identified, as should the institution's correspondents and counterparties on privately operated clearing and settlement systems. Third, the approach used to assess the creditworthiness of customers and correspondents and the method used to establish credit limits for counterparties on privately operated clearing and settlement systems should be reviewed.

Sound credit policies should address all credit relationships the institution has with a customer, both explicit lending and intraday lending as a result of providing payment services. Fundamentally, the institution must establish

- Formal, written credit policies that articulate sound credit standards that are approved by the institution's board of directors
- Procedures to ensure that policies are communicated, understood, and faithfully executed
- Controls at the customer level to ensure that the credit evaluations of individual customers or decisions concerning limits on interday and intraday credit extensions are followed.

Identification of customers, correspondents, and counterparties

An institution should review its customers' payment activity to identify those customers that are active users of payment services. These customers should be classified according to the peak value of payments and the types of services used, such as large-dollar funds transfers, book-entry government securities transfers, other large-dollar securities services (such as commercial paper), ACH, and check. It is important to be familiar with the types of payment services that each customer uses because of the unique risks that various services may pose to the institution.

An institution should also review the financial condition of correspondents with which it transacts business such as clearing checks, obtaining securities safekeeping services, and obtaining securities transfer services. The institution should ensure, on a regular basis, that the financial condition of all correspondents is satisfactory. If signs of deterioration are observed, steps should be taken to reduce balances and the volume of activity conducted through the correspondent.

In addition, an institution should evaluate its counterparties on all large-dollar clearing and settlement systems that require participants to set bilateral credit limits with each other.

Some clearing and settlement systems, such as securities depositories and ACH systems, manage the credit risk posed by participants centrally. In these systems, individual participants may not be able to control explicitly the exposure they face from other participants by setting credit limits. For these types of systems, institutions should assess the exposure they might face due to a participant's default by assessing the value of transactions exchanged with other participants or the loss allocation methodology employed by the system. Institutions should ensure that they would have the ability to fund a change in their settlement position were a participant on such a system unable to settle.

Assessment of customer, correspondent, and counterparty creditworthiness

For all accountholders that are identified as being active users of payment services, whether they are financial institutions or corporate customers, the institution should evaluate each customer's creditworthiness and determine the amount of intraday credit it is willing to provide to each customer. The establishment of intraday credit limits should be consistent with the institution's overall relationship with the customer. In addition, such credit limits should be set conservatively and should not exceed a customer's typical payment needs, even if the customer has a very high credit rating. Credit limits should be comprehensive and cover all payments processed on behalf of each customer. Further, for customers that use ACH services or other services that create interday risk, interday credit limits (or prefunding requirements that would preclude credit extensions) for such services should be established as well.

If an institution deals with correspondents, the institution should determine the value of transactions cleared through each correspondent as well as other exposures that it faces from each correspondent and establish limits on those exposures that reflect the institution's assessment of the creditworthiness of each correspondent. In the case of counterparties on privately operated large-dollar clearing and settlement systems, institutions should determine the amount of credit they are willing to extend to each of the other participants on the system. These limits should be set conservatively, and they should take into consideration other exposures to the counterparty, such as correspondent and respondent relationships and other privately operated systems on which the institution participates.

For accountholders as well as correspondents and counterparties on private clearing and settlement systems, changes in payment practices as well as changes in financial condition should be monitored on a regular basis. If changes are identified, steps should be taken to reassess credit limits, direct payment activity to other institutions, change bilateral credit limits, or modify the methods used to control the payment services provided to the institution.

Monitoring customer activity

Once the active customers have been identified, the systems used to monitor those customers' payment activity, both intraday and interday, should be reviewed. These systems need not be complex automated systems that fully integrate every transaction. Rather, the systems should monitor and control all significant transactions processed for the customer. It is reasonable to assume that all large-dollar funds and book-entry securities transfers should be included in any monitoring system. If the customer collects high-dollar volumes of checks, uses the ACH mechanism extensively, makes large cash deposits, or is an active participant in

securities markets, such activity should also be reflected in monitoring systems. Additionally, if the institution decides not to include certain types of transactions in monitoring systems on a regular basis, procedures should be established to track other transactions that might materially affect the customer's use of intraday and interday credit.

In many institutions, separate monitoring systems have been established to monitor customer activity by type of business, such as funds activity or government securities activity, or to monitor each of a customer's accounts separately. While such approaches can be used to control risk through the allocation of credit limits among the various monitoring systems, they do not permit institutions to observe closely the aggregate position of a customer and to identify unusual behavior quickly. Attempts should be made to establish interfaces among diverse monitoring systems. Such interfaces could be achieved by providing access to all monitoring systems to the account officer or by designating a primary system to which data could be fed from other systems periodically to provide one consolidated view of customers' intraday and interday positions.

Intraday Payment Activity. Intraday monitoring systems should reflect the customer's opening balance at the beginning of the day, and material transactions should be posted to the account as information regarding the transactions becomes available throughout the day. If certain customers are required to pledge collateral to protect the institution providing credit to them, procedures should ensure that the collateral is acceptable. Monitoring systems should capture the market value or other assigned value of the collateral and ensure that intraday extensions of credit are adequately secured. Further, monitoring systems must have the capability to identify any transaction that would result in a credit limit being exceeded and to hold that transaction until an account officer reviews it and determines how the transaction should be handled.

To control the risk associated with clearing and settling for book-entry securities transfers, institutions should assess the creditworthiness of their customers and ensure that the customer has the ability to fund consistently its daily activity. In this respect, it is important for institutions to understand the intraday flows associated with their customer's book-entry securities activity in order to gain an understanding of peak funding needs. Depending upon the creditworthiness of the customer and the nature of the activity, an institution might require its customers to take any or all of the following steps:

- Advise the institution of expected incoming securities transfers.
- Prefund all such transfers, with the understanding that any transfer not prefunded may be returned.
- Collateralize all intraday overdrafts.

Interday Payment Activity. To control interday risk arising from the origination of ACH credit transactions, institutions should also establish interday monitoring systems. The credit

limits in those systems should be set in conjunction with each customer's overall interday credit limit. Institutions should periodically assess the creditworthiness of their customers and ensure that the established credit limits continue to be appropriate. For customers in weak financial condition, institutions should have the capability to pend or reject, in real time, transactions that would exceed credit limits for these customers.

To control the return item risk associated with originating ACH debit transactions and collecting checks on behalf of customers, an institution should ensure that each customer has the capability to pay return items after it has been granted funds availability by the institution. In addition, if a customer's financial condition begins to deteriorate, the institution should analyze the customer's return-item history and delay availability of funds or place holds on the account, as appropriate.

D. Operating Controls and Contingency Procedures

The purpose of the analysis of operating controls and contingency procedures is to assess the integrity and the reliability of an institution's payment operations to ensure that they are not a source of operating risk. The integrity of operations is of particular concern because operational errors and potential fraud can increase the cost of payment services and can undermine the confidence of the public in the payment mechanism. Similar results can occur if payment systems are unreliable and parties making and receiving payments do not have confidence that payments will be made on a timely basis.

The analysis of operating controls and contingency procedures is divided into two parts. The first part discusses the principal controls that institutions should use in payment processing to ensure that their operations are safe and secure. The second part discusses briefly the need for sound contingency procedures as a means of increasing payment system reliability.

Controls over payment operations

Institutions providing electronic payment services should be aware of and employ a comprehensive set of controls designed to ensure the integrity of payments and the processing system, limit access to devices and systems to authorized personnel, and prevent fraudulent or erroneous messages or payments from being initiated.

Within each broad category of controls there are numerous alternative solutions that may be employed depending on the technology available, staffing levels, and the nature of the customer base. The following discussion outlines the general controls that should be implemented, the rationale for each control, and some examples of typical control arrangements.

Integrity of payment processing systems. Virtually all electronic payment systems use computer software to process payments. Institutions should ensure that software is tightly controlled so that it cannot be modified inadvertently or for fraudulent purposes. Methods of accomplishing this include (1) using dual controls for changes to the production environment, (2) conducting extensive user testing involving a wide range of test cases, (3) limiting the number of people who have access to the system to a necessary few, (4) ensuring that the version of

software that is tested is, in fact, the version put into production, and (5) limiting access to system documentation only to authorized users.

On-line access to the payment-processing system. Once an electronic payment system is put into production, the ability for employees or customers to initiate transactions should be strictly limited to authorized individuals. Furthermore, the accuracy and validity of payments created by authorized staff should be regularly monitored. Methods of accomplishing this include (1) limiting physical access to payment-origination facilities, such as terminals, (2) using log-on IDs and passwords, (3) changing passwords regularly and making sure they are not written down or available to others, (4) using message authentication codes to ensure that payments are not altered during storage or transmission, (5) establishing dual controls over message creation (one person keys in, another person validates), and (6) maintaining good audit trails of payments originated and received.

Off-line payment initiation and delivery processes. Electronic payment fraud may result from poor controls over off-line payment initiation or delivery; “off-line” refers to the use of telephones, letters, or facsimile machines. Institutions must ensure that messages originate from and are delivered to authorized parties. In all cases, message integrity must be maintained. Because access to a telephone or facsimile machine is difficult to control, the normal on-line access controls cannot be used. Consequently, institutions should use procedures such as (1) maintaining authorized lists of institution or customer personnel who can send or receive payments, (2) using controlled code words known only to the two parties, (3) using multi-party call-back procedures, (4) recording and monitoring telephone calls, and (5) using sequence numbering schemes for maintenance of audit trails.

Authorized staff. Care should always be taken to screen personnel employed in or with access to electronic payments areas, including programmers, analysts, computer operators, managers, clerical staff, and custodial staff. Management should have complete confidence in the honesty and integrity of all involved staff members. Controls, subject to appropriate statutes, that can be employed could include the following: pre-employment screening, ongoing monitoring of potential conflicts of interest, immediate removal from sensitive positions or system access of personnel who have resigned or been terminated, and specific security controls over access to offices and machines during nonbusiness hours.

Contingency procedures

Despite the current level of automation and technology in use in the financial industry, situations arise that can cause significant interruptions in the provision of electronic payment services. These interruptions can entail outages of short duration, such as temporary losses of power and breaks in telecommunications, or longer, sometimes indefinite, outages, which may be caused by fire, flood, and earthquake. Such occurrences not only place an institution and its customers at risk but also can have serious systemic risk implications in the case of a very large institution. When computer systems are not operational during such events, account balances may be unavailable and normal investment and trading capabilities may be interrupted.

Contingency procedures should be devised to cover three main areas of exposure: (1) hardware and software systems, (2) data communications systems, and (3) physical operations facilities. The following paragraphs outline the general areas of consideration and provide some examples of typical control arrangements.

Hardware and software systems. Virtually any hardware or software system can experience problems that cause normal processing to stop. Institutions should devise and periodically test backup procedures to ensure that processing can be resumed on a sufficiently timely basis to minimize institutional risk.

Techniques that can be employed to mitigate this risk include the following:
(1) redundant hardware and software to replace or take over operations from inoperable systems,
(2) off-line backup plans, accommodating a limited number of key electronic files or payments,
and (3) off-site disaster recovery facilities where computer operations can continue in case of a major outage.

Data communications systems. It is possible for telecommunications facilities to be unavailable to an institution even though computer systems are still running. Consequently, institutions should have backup facilities for all key data communications capabilities, including data security devices, to ensure that breaks in telecommunications service do not cripple the institution's operations and services. Techniques that can be used include backup leased or dial access lines to in-house systems, external networks, and key customer locations, spare or redundant equipment for such devices as modems, encryption boxes, and controllers, and off-line communications procedures, where feasible.

Physical operations facilities. Electronic funds transfer operating areas, including the area's desks, telephones, terminals, personal computers, copying machines, and facsimile machines, could be disabled in the event of a site disaster. Consideration should be given to the following options:

- Identifying an alternate physical facility into which operations staff can be relocated
- Developing plans to acquire or use terminals, personal computers, and other necessary office equipment
- Installing and testing telecommunications capabilities to the backup site.

Minimizing operating risk in a contingency situation is a difficult task that requires significant advance planning. Plans should be fully documented, regularly reviewed, and tested to ensure that changes are accommodated over time, and that all personnel are familiar with their responsibilities.

E. Overall Self-Assessment Rating

Table VII-3 integrates the components of the self-assessment into an overall self-assessment rating that indicates the institution's appropriate net debit cap category, subject to Reserve Bank approval.

Table VII-3

Combined Assessment of Cap Category

Credit-worthiness	Intraday funds management & control	Customer credit policies & controls	Operating controls & contingency procedures	Overall assessment (cap category)
Excellent	Strong	Strong	Satisfactory	High
Excellent	Strong	Satisfactory	Satisfactory	Above average
Excellent	Satisfactory	Strong	Satisfactory	Above average
Excellent	Satisfactory	Satisfactory	Satisfactory	Above average
Very good	Strong	Strong	Satisfactory	Above average
Very good	Strong	Satisfactory	Satisfactory	Average
Very good	Satisfactory	Strong	Satisfactory	Average
Very good	Satisfactory	Satisfactory	Satisfactory	Average
Adequate	Strong	Strong	Satisfactory	Average
Adequate	Strong	Satisfactory	Satisfactory	Average
Adequate	Satisfactory	Strong	Satisfactory	Average
Adequate	Satisfactory	Satisfactory	Satisfactory	Average
Below standard	Any rating	Any rating	Any rating	Zero
Any rating	Unsatisfactory	Any rating	Any rating	Zero
Any rating	Any rating	Unsatisfactory	Any rating	Zero
Any rating	Any rating	Any rating	Unsatisfactory	Zero

Appendix A: Self-Assessment Worksheets

The procedures and worksheets in this appendix were prepared for institutions to use as a basis for completing a self-assessment required to establish a daylight overdraft net debit cap in the average, above average, or high cap categories. Prior to performing the assessment, institutions should carefully review section VII of this manual, which provides additional discussion of the components of the assessment. Appropriate documentation supporting the results of the assessment should be attached to all parts of the worksheets and kept on file for review by the institution's primary supervisor. Comments on various factors essential to the self-assessment may be attached as necessary, provided the comments reference the appropriate worksheet.

The index below indicates the location of the various components of the self-assessment including (1) creditworthiness, (2) intraday funds management and control, (3) customer credit policies and controls, and (4) operating controls and contingency procedures. Institutions normally must use the Creditworthiness Matrix method (1.A.), which relies on recent capital levels and supervisory examination ratings, to determine their creditworthiness rating. The full self-assessment of creditworthiness (1.B.) is permitted, or in some cases required, in certain circumstances. These circumstances, which are discussed further in section VII of this manual, might include a significant change in financial condition, the availability of additional substantive information about the institution's financial condition not available at the time of the last examination, or a significant improvement in areas of concern to the primary supervisor since the last examination. All institutions should complete components 2, 3, and 4. Ratings for the four components should be recorded in table A-4 to arrive at the institution's final self-assessment rating.

Index

1. Assessment of Creditworthiness	62
1.A. Creditworthiness Matrix Procedures	62
1.B. Full Assessment of Creditworthiness Procedures.....	65
<i>1.B.i. Capital Adequacy</i>	<i>67</i>
<i>1.B.ii. Key Performance Measures</i>	<i>69</i>
Asset Quality	69
Earnings Performance.....	72
Liquidity.....	74
<i>1.B.iii. Condition of Affiliated Institutions</i>	<i>76</i>
<i>1.B.iv. Integrating the Three Factors</i>	<i>77</i>
2. Assessment of Intraday Funds Management and Control.....	79
3. Assessment of Customer Credit Policies and Controls.....	81
3.A. Assessment of Credit Policies	81
3.B. Assessment of Customer, Correspondent, and Counterparty Creditworthiness	82
3.C. Monitoring Customer and Counterparty Intraday Payment Activity.....	83
3.D. Monitoring Customer Interday Payment Activity	85
3.E. Overall Rating: Customer Credit Policies and Controls	86
4. Assessment of Operating Controls and Contingency Procedures	87
4.A. Internal Operating Controls	87
4.B. Contingency Procedures	89
4.C. Overall Rating: Operating Controls and Contingency Procedures	90
5. Combining the Four Components	91

1. Assessment of Creditworthiness

1.A. Creditworthiness Matrix Procedures for Domestically-chartered Institutions with Affiliates

Supervisory Assessment

Record the composite rating from the last supervisory examination in the upper portion of table A-1.

Capital Assessment

Compare the institution's capital ratios to thresholds established under section 38 of the Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA) for the Capital Zones for Prompt Corrective Action and record the results in the upper portion of table A-1.

Condition of Affiliates

The condition of the holding company and related affiliates must be considered in the analysis of the institution's condition. In the evaluation of the condition of an institution's parent company and affiliates, emphasis should be placed on the most recent supervisory ratings of the affiliated institutions. It is recognized that management may not have the information needed for assessing the condition of affiliated institutions. In such situations, management should confer with the financial officers of the holding company.

The condition of the parent company or affiliated institutions will have either a neutral or negative impact on the institution completing the assessment. If the parent company and related affiliates are in satisfactory condition, no further adjustment needs to be made to the results of the institution's self-assessment. Such findings will normally be supported by evidence that the holding company serves as a source of strength to the institution; that is, it is willing and able to provide capital contributions or other managerial and financial support to the institution.

The creditworthiness rating of an institution would be adjusted to below standard if the condition of one or more of the commonly controlled institutions was deemed marginal or unsatisfactory by the primary supervisor and the institution or institutions represent a material position of the organization's consolidated assets or materially affects the organization's consolidated operations. This situation may arise when a supervisory agency discloses material operating or financial weakness within the parent company or affiliated institutions that poses significant risk to the institution. When such situations arise, the institution will not qualify for a positive net debit cap.

- If the supervisory rating of affiliates is marginal or unsatisfactory, the assigned rating is negative.

- If the supervisory rating of affiliates is fair or better, the assigned rating is neutral and will not result in an upgrade or downgrade of the other factors.

Condition of Affiliates Rating:	
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Overall Creditworthiness Rating

Institutions should determine their creditworthiness rating by selecting the overall creditworthiness rating in the right-hand column of table A-1 that corresponds to their ratings in the other columns for their supervisory and capital assessments and the condition of their affiliates. If the Creditworthiness Matrix reflects an overall rating of adequate or above, the institution should record its creditworthiness rating in table A-4 (on page A-34) and proceed to complete the remaining components of the self-assessment.

In some instances, the Creditworthiness Matrix result will indicate that a full assessment of creditworthiness is appropriate, in which case the institution should not record the rating from the matrix in table A-1, but should instead complete the procedures under part 1.B. of this section. If the Creditworthiness Matrix shows an overall rating of below standard and the institution cannot justify completing the full assessment of creditworthiness, the institution does not qualify for a positive daylight overdraft cap and need not complete the remainder of the assessment.

Table A-1
Creditworthiness Matrix Summary

PRIMARY MEASURES	
SUPERVISORY ASSESSMENT:	
CAPITAL ASSESSMENT:	
CONDITION OF AFFILIATES ASSESSMENT:	

Supervisory assessment	Capital levels	Condition of affiliates	Overall creditworthiness
Strong	Well capitalized	Neutral	Excellent
Strong	Adequately capitalized	Neutral	Very good
Strong	Undercapitalized	Neutral	***
Satisfactory	Well capitalized	Neutral	Very good
Satisfactory	Adequately capitalized	Neutral	Very good
Satisfactory	Undercapitalized	Neutral	***
Fair	Well capitalized	Neutral	Adequate
Fair	Adequately capitalized	Neutral	Adequate
Fair	Undercapitalized	Neutral	Below standard
Marginal	Any level	Any rating	Below standard
Unsatisfactory	Any level	Any rating	Below standard
Any rating	Significantly undercapitalized	Any rating	Below standard
Any rating	Critically undercapitalized	Any rating	Below standard
Any rating	Any level	Negative	Below standard

*** Full assessment of creditworthiness must be performed.

Overall Creditworthiness Rating:	
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1.B. Full Assessment of Creditworthiness Procedures

The following discussion covers the recommended method for completing the full assessment of creditworthiness. The accompanying worksheets should serve as a guide in completing this assessment. Institutions should record their ratings on these worksheets and in the upper portion of table A-2.

There are three factors that must be considered in assessing creditworthiness:(1) capital adequacy, (2) key performance measures, including asset quality, earnings performance, and liquidity, and (3) the condition of affiliated institutions. In the self-assessment documentation, each factor should be discussed separately and the rationale used to adjust or maintain the overall creditworthiness rating should be explained. Exceptions or special considerations pertaining to the evaluation must be discussed and documented for supervisory examiners.

An assessment that differs significantly from findings of the primary supervisor should be particularly well documented and supported. It may be helpful to refer to the supervisor's examination manuals for a description of the rating guidelines and procedures used to assess an institution's condition. However, regardless of the results of the creditworthiness assessment, the creditworthiness rating achieved is not necessarily related to or reflective of the rating that would result from a regulatory examination. It should also be noted that the numerical benchmarks for certain performance standards contained in these self-assessment procedures may be subject to change.

In developing the assessment, the institution should compare its performance with selected ratios and peer comparisons that are well recognized as performance standards by the banking industry to determine its creditworthiness rating. The self-assessment may use information derived from confidential internal sources, publicly available reports, or both. Some common sources that provide the information needed for the creditworthiness assessment include supervisory examination reports, management financial reports, supervisory performance summaries, internal and external audit reports, rating agency reviews, and private-vendor performance summaries. Performance summary reports, such as the Uniform Bank Performance Report (UBPR) and the Bank Holding Company Performance Report (BHCPR), provide current and historic financial peer data.¹¹⁴ Also, similar information is available from bank trade associations, public accounting firms, rating agencies, and other private vendors.

An institution's performance should be assessed in relation to its percentile ranking within the peer group. Care should be exercised when choosing an appropriate peer group. Regional peer groups are not appropriate if the region is experiencing economic conditions that result in a lower performance for the peer group as a whole. In such situations, it is appropriate to use a national peer group. Strong performance may be indicated by a high percentile when certain measures of earnings and capital are analyzed, or a low percentile when certain asset quality and liquidity measures are considered. Also, when evaluating the relative rankings, both current performance and performance trends should be considered.

¹¹⁴ The UBPR and the BHCPR are available at www.ffiec.gov/.

The following guidelines indicate appropriate ratings for performance relative to the peer group:

- *Excellent* - Performance consistently at or above the 75th percentile, and most key measures above the 90th percentile;
- *Very good* - Performance consistently above the 55th percentile, and most key measures above the 75th percentile;
- *Adequate* - Performance consistently above the 35th percentile, and most key measures near peer averages. No significant measures in the lowest 10th percentile, or below standards set by supervisory authorities; and
- *Below standard* - Performance measures consistently below average, and significant weakness in one or more key measures.

An institution must justify and fully document any rating that is not consistent with the above criteria. Greater emphasis should also be placed on comparisons to supervisory standards when peer group norms reflect performance well below supervisory standards. Should the peer group comparison result in a below standard rating, the appropriate creditworthiness rating is also below standard.

It is recognized that only limited peer data are available for U.S. branches and agencies of foreign-based banks. In such instances, the institution should refer to similar data used for U.S. banking institutions. In making such comparisons, differences with respect to accounting principles and financial practices should be considered when interpreting relative performance.

1.B.i. Capital Adequacy

In most cases, the FDICIA Capital Zones for Prompt Corrective Action will apply as the regulatory standard and general baseline for the capital adequacy component of the assessment of creditworthiness. Even for institutions that are not subject to risk-based capital requirements, or for those that believe that a higher capital adequacy rating than that currently indicated by the capital zones is warranted, these zones should be used as a guide in developing the capital adequacy rating.

If an institution's capital levels are below any of the federal guidelines, the appropriate self-assessment rating for creditworthiness is usually below standard. An institution may provide information to the supervisory agencies and appropriate Reserve Bank to support a higher rating. In such cases, an institution will not receive an overall creditworthiness rating better than adequate. For instance, if an institution's capital ratios are below the regulatory standard but the institution has firm plans to increase its capital, it may adjust its ratios upward; however, evidence supporting the upward adjustment to the institution's original ratios should be fully documented. In addition, the capital adequacy rating should be adjusted downward if capital has declined since the last examination or if management expects that capital will decline to below minimum acceptable levels.

A foreign bank that is not based in a country that adheres to the Basel Capital Accord should compare capital ratios calculated under home country rules to the regulatory standard and document analysis that supports a conclusion that its capital meets or exceeds the standard. In addition, if other minimum capital ratios are prescribed by any of the supervisory agencies, the institution must address its level of compliance with such measures as well.

Capital Adequacy Worksheet

	Institution (original)	Institution (adjusted*)	Regulatory standard	Peer
Tier I capital/risk-weighted Assets			4.0%	
Total capital/risk-weighted assets			8.0%	
Tier I capital/total assets			3.0%	
Other ratios:				

* If the institution's original capital ratios were adjusted for any reason, fully document the calculations and assumptions used to perform the adjustment.

Based on the institution's original or adjusted capital levels, what is the highest capital zone at or above which the institution is expected to remain for the next twelve months?

- Well capitalized
- Adequately capitalized
- Undercapitalized
- Significantly undercapitalized
- Critically undercapitalized

Capital Adequacy Rating:	
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1.B.ii. Key Performance Measures

Asset Quality

Asset quality assessment is often based on the level and trend of non-performing and classified assets. Such information is available from internal management reports, supervisory examination reports, and external audit summaries. It is recognized that only limited information may be available for peer group comparisons. Provided, however, that such information is current, supervisory examination findings and comparisons pertaining to asset quality may serve as a starting point.

For example, the level and trend of weighted classified assets as noted in the last supervisory examination report should be reviewed. This measure reflects the probability of loss that has not yet been recognized. "Weighted classified assets" is defined as the sum of (1) 20 percent of substandard, (2) 50 percent of doubtful, and (3) 100 percent of loss classifications not already charged off. The dollar amount of weighted classified assets should be compared with Tier I capital plus the loan loss reserve. The institution's ratio of total classified assets to total capital should also be reviewed. "Total classified assets" is defined as the sum of all substandard, all doubtful, and all loss classifications not already charged off. The total of classified assets should be compared with Tier I capital plus the loan loss reserve. In particular, the level and severity of classifications should be carefully evaluated, as should the trends in both the classification categories and ratio itself. The assessment of this ratio is a useful analytical complement to the weighted classification ratio.

Additionally, the level of "other real estate" owned as a percent of average assets available, which is also an indicator of an institution's asset quality, should be considered. Normally, unacceptable levels of other real estate owned will adversely affect earnings performance. An institution exhibiting a negative trend with respect to other real estate or with levels consistently above their peer group should assign a below standard rating to this area. Institutions with levels consistently below their peer group or institutions exhibiting a positive trend would not need to adjust their ratings.

Levels of delinquent, nonperforming, and non-accrual loans as a percentage of total loans or as a percentage of the allowance for loan and lease losses should be reviewed. These measures should then be compared with supervisory standards and peer group norms. Ratings assigned to asset quality are derived by referring to the guidelines described in this section regarding peer group comparisons. Other considerations that should be factored into the evaluation of asset quality include management's demonstrated ability to collect problem credits, an assessment of credit concentrations to particular industries or geographic regions, adequacy of loan loss reserves, and changes in lending policies and practices.

Asset Quality Worksheet

Review the level and trend of weighted classified assets, as disclosed in the last regulatory examination. In the absence of data for current weighted classified assets, review the level and trend of noncurrent loans as a percentage of total loans and as a percentage of the allowance for loan losses. These measures reflect the potential for loss within the institution.

Institutions that have had an examination within twelve months should use the first method, below, to determine their ratings. Other institutions should use the second method.

1. If the most recent examination was less than twelve months from the current date, compare the weighted classified asset ratio (weighted classified assets to Tier I capital plus loan loss reserve) with the following criteria to determine the institution's rating.

Institution	Weighted classified ratio	Rating
	< 5%	Excellent
	> 5% to 15%	Very good
	> 15% to 30%	Adequate
	> 30%	Below standard

Asset Quality Rating:	
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Asset Quality Worksheet – continued

2. If the examination data are unavailable or older than twelve months, calculate the following ratios:

	Ratio	Peer	Percentile
Non-current loans/total loans:			
Non-current loans/loan loss allowance:			
Total classified assets/total capital:			
Other real estate/total assets:			

Compare these ratios with the following table to determine the institution's rating:

Percentile	Rating
< 10th	Excellent
> 10th to 25th	Very good
> 25th to 50th	Adequate
> 50th	Below standard

Earnings Performance

The evaluation of earnings performance relies heavily upon comparisons of key profitability measures (such as return on assets and return on equity) to industry benchmark and peer group norms. Important considerations in the evaluation of earnings are quantity, quality, and trend. Also, a number of other factors, such as the level of nonrecurring items, exposure to interest rate movements, coverage of potential loan losses or losses on other assets, and overhead, must be factored into the evaluation process. The following worksheet should assist in the evaluation of return on assets.

An institution experiencing negative earnings should assign a rating of *Below Standard* to this area. An excellent or a very good rating is reserved for institutions that exhibit strong, consistent earnings performance relative to supervisory standards and their peer groups and have no material weakness disclosed by their primary supervisors.

Earnings Performance Worksheet

	Institution	Peer	Percentile
ROA:	%	%	%
Adjusted ROA:	%	%	%

Compare the institution's return on assets to the following benchmarks:

ROA Benchmarks:					
	Asset size				
Rating	< \$100 million	\$100-\$300 million	\$300-\$1,000 million	\$1-\$5 billion	>\$5 billion
Excellent	1.15%	1.05%	0.95%	0.85%	0.75%
Very good	0.95	0.85	0.75	0.65	0.55
Adequate	0.75	0.65	0.55	0.45	0.35
Below standard	<0.75	<0.65	<0.55	<0.45	<0.35

Earnings Performance Rating:	
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Liquidity

An evaluation of liquidity involves a determination of the stability of the institution's retail and wholesale funding sources as well as its ability to cover large unexpected funding outflows. The assessment should include a review of the institution's historical and current funding patterns, level of noncore funding, ability to access the money markets, and adequacy of contingency liquidity plans. The following worksheet should facilitate the evaluation of the institution's dependency on non core funding sources.

An adequate rating may be assigned when liquidity measures are near peer group levels and no material concerns have been disclosed by the primary supervisor. If undue reliance is placed on noncore funding, a below standard rating is warranted. In addition, this rating may apply when access to traditional funding sources declines because of market concerns regarding the institution's condition. Excellent or very good ratings reflect institutions that have strong funds management abilities, ready access to alternative funding sources, and adequate controls for managing asset and liability risks.

Liquidity Worksheet

	Institution	Peer	Percentile
Net non core funding dependency ratio:			

Compare the institution's net non core funding dependency ratio with the data in the following table.

Percentile	Rating
< 10th	Excellent
> 10th to 25th	Very good
> 25th to 50th	Adequate
> 50th	Below standard

Liquidity Rating:	
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1.B.iii. Condition of Affiliated Institutions

The condition of the holding company and related affiliates must be considered in the analysis of the institution's condition. In the evaluation of the condition of an institution's parent company and affiliates, emphasis should be placed on the most recent supervisory ratings of the affiliated institutions. It is recognized that management may not have the information needed for assessing the condition of affiliated institutions. In such situations, management should confer with the financial officers of the holding company.

The condition of the parent company or affiliated institutions will have either a neutral or negative impact on the institution completing the assessment. If the parent company and related affiliates are in satisfactory condition, no further adjustment needs to be made to the results of the institution's self-assessment. Such findings will normally be supported by evidence that the holding company serves as a source of strength to the institution; that is, it is willing and able to provide capital contributions or other managerial and financial support to the institution.

The creditworthiness rating of an institution would be adjusted to below standard if the condition of one or more of the commonly controlled institutions was deemed marginal or unsatisfactory by the primary supervisor and the institution or institutions represent a material position of the organization's consolidated assets or materially affect the organization's consolidated operations. This situation may arise when a supervisory agency discloses a material operating or financial weakness within the parent company or affiliated institutions that pose significant risk to the institution. When such situations arise, the institution will not qualify for a positive net debit cap.

- If the supervisory rating of affiliates is marginal or unsatisfactory, the assigned rating is negative.
- If the supervisory rating of affiliates is fair or better, the assigned rating is neutral and will not result in an upgrade or downgrade of the other factors.

Condition of Affiliates Rating:	
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1.B.iv. Integrating the Three Factors

In integrating the three factors (capital adequacy, key performance measures, and the condition of affiliated institutions) into a single assessment, institutions should use table A-2. In general, the rating assigned to key performance measures will not exceed the lowest of the ratings for the three measures. Similarly, the ratings assigned to creditworthiness should not normally exceed the ratings of any of the three factors. In general, because the factors are interrelated, the ratings of the factors should correspond closely to the overall creditworthiness rating. For example, an institution that has one of the key performance measures rated below standard will be expected to have overall creditworthiness rated below standard. Usually, poor asset quality or operating losses will reduce capital to levels associated with a below standard rating and, as a result, the overall creditworthiness rating should be assigned accordingly. In situations in which an institution's capital ratios were below the regulatory standard but the rating for capital adequacy was adjusted upward based on other factors, the overall creditworthiness rating assigned should not be greater than adequate.

In addition, the overall rating for creditworthiness should be adjusted to reflect factors that could have a material impact on the institution's financial condition. Other factors that may contribute to the assignment of the overall rating might include the following:

- Major changes in the institution's management
- Material prospective losses or recoveries
- Depressed or materially improved economic conditions in the institution's primary operating location
- Political developments in foreign countries where the institution has considerable interests.

If the table A-2 indicates an overall creditworthiness rating of below standard, the institution does not qualify for a positive daylight overdraft cap and need not complete the remainder of the assessment.

Table A-2
Creditworthiness Self-Assessment Summary

PRIMARY MEASURE		
	CAPITAL ADEQUACY ASSESSMENT:	
KEY PERFORMANCE MEASURES		
	ASSET QUALITY ASSESSMENT:	
	EARNINGS STRENGTH ASSESSMENT:	
	LIQUIDITY ASSESSMENT:	
KEY PERFORMANCE MEASURES RATING:*		
CONDITION OF AFFILIATES ASSESSMENT:		

* (Equals the lowest of the ratings for the three performance measures.)

Capital adequacy	Key performance measures	Condition of affiliates	Overall creditworthiness
Well capitalized	Excellent	Neutral	Excellent
Adequately capitalized	Excellent	Neutral	Very good
Well capitalized	Very good	Neutral	Very good
Adequately capitalized	Very good	Neutral	Very good
Well capitalized	Adequate	Neutral	Adequate
Adequately capitalized	Adequate	Neutral	Adequate
Undercapitalized	Any rating	Any rating	Below standard
Significantly undercapitalized	Any rating	Any rating	Below standard
Critically undercapitalized	Any rating	Any rating	Below standard
Any rating	Below standard	Any rating	Below standard
Any rating	Any rating	Negative	Below standard

Overall Creditworthiness Rating:	
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2. Assessment of Intraday Funds Management and Control

The purpose of the analysis of intraday funds management and control is to assess an institution's ability to fund its settlement obligations daily across all payment systems in which the institution participates. The analysis should include input from personnel in the funds management, credit, and operations areas and should involve a review of payment flows activity over time. The Payment Flows Worksheet (table A-3) is provided as a model to assist institutions in analyzing their intraday payment activity. To the extent that an institution uses other payment services that require large-dollar settlements, the worksheet should be expanded to include them.

	<u>Yes</u>	<u>No</u>
1. Do data for the institution's daily payment flows show that the institution is able to fund its positions on each payment system in which it participates even if a major counterparty, customer, correspondent, or participant in a clearing arrangement defaults?	_____	_____
2. Does the institution's system for monitoring its positions on payment systems capture:		
a. At least 95 percent of the dollar value of all payments processed at least every 15 minutes?	_____	_____
b. At least 80 percent of the dollar value of all payments processed at least every 30 minutes?	_____	_____
c. Less than 80 percent of the dollar value of all payments less than every 30 minutes?	_____	_____

Rating of Intraday Funds Management and Control:

- A strong rating is appropriate if the answers to questions 1 and 2a are yes.
- A satisfactory rating is appropriate if the answers to questions 1 and 2b are yes.
- An unsatisfactory rating results if the answer to question 1 is no or if the answer to question 2c is yes.

Intraday Funds Management and Control Rating:	
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Table A-3
Payment Flows Worksheet
(Daily average dollar value)

Payment type	\$ paid	% of total	\$ rec'd	% of total
A. Federal Reserve account				
1. Fedwire				
a. Funds				
b. Book-entry securities				
2. Checks				
a. Through Federal Reserve				
b. Through clearinghouses ¹				
3. ACH transactions				
a. Through Federal Reserve				
i. Credit payments				
ii. Debit payments				
b. Through private ACH systems ¹				
4. Currency and coin				
5. Other				
Subtotal - Federal Reserve account activity				
B. Through correspondent accounts				
1. Check transactions				
2. Other transactions				
C. Privately operated networks²				
1. CHIPS				
2. DTC				
3. Other				
Total		100%		100%

¹ Daily average net settlement entry, net debit or net credit.

² If Fedwire funds transfers are used to settle obligations of private clearing and settlement arrangements, the value of those settlement transfers should be deducted from Fedwire funds transfer totals and entered in the appropriate category.

3. Assessment of Customer Credit Policies and Controls

		<u>Yes</u>	<u>No</u>
3.A. Assessment of Credit Policies			
1.	Have formal, written credit policies been developed that articulate sound credit standards?	_____	_____
2.	Do the credit policies address interday and intraday credit extensions?	_____	_____
3.	Have the credit policies been approved by the institution's board of directors?	_____	_____
4.	Are the policies reviewed periodically?	_____	_____
5.	Have the procedures been communicated to all employees charged with executing them?	_____	_____

Rating of Credit Policies:

- If the answers to questions 1 through 5 are yes, a satisfactory rating is appropriate.
- If the answer to any of the preceding five questions is no, an unsatisfactory rating should be assigned.

3.B. Assessment of Customer, Correspondent, and Counterparty Creditworthiness

	<u>Yes</u>	<u>No</u>
1. Have credit assessments of customers, correspondents, and counterparties that result in the establishment of credit limits or limits on the institution's exposure been performed within the last 12 months?	_____	_____
2. Do procedures ensure that significant changes in the financial condition of customers, correspondents, and counterparties are identified and considered in current credit limits?	_____	_____

Rating of Customer, Correspondent, and Counterparty Creditworthiness Assessments:

- A satisfactory rating is appropriate if the answers to questions 1 and 2 are yes.
- An unsatisfactory rating is appropriate if the answer to either question 1 or question 2 is no.

3.C. Monitoring Customer and Counterparty Intraday Payment Activity

		<u>Yes</u>	<u>No</u>
1.	Do customer and counterparty monitoring systems		
	a. Capture all significant transactions at least every 15 minutes?	_____	_____
	b. Capture 80 percent of significant transactions at least every 30 minutes?	_____	_____
	c. Capture less than 80 percent of significant transactions less than every 30 minutes?	_____	_____
2.	If customers are required to pledge collateral for intraday extensions of credit:		
	a. Do systems ensure that all intraday extensions of credit are fully secured?	_____	_____
	b. Do procedures ensure that collateral reasonably reflects market values?	_____	_____
	c. Do procedures ensure that only eligible collateral is used to support intraday extensions of credit?	_____	_____
3.	Do monitoring systems reject or pend transactions when credit limits are breached or when collateral is insufficient?	_____	_____
4.	Are such transactions only released for processing after approval by a credit officer?	_____	_____
5.	If the institution participates in large-dollar clearing and settlement arrangements, is any transaction that would breach a bilateral credit limit pended or rejected?	_____	_____

Monitoring Customer and Counterparty Intraday Payment Activity-continued

Rating Customer Intraday Monitoring:

- If the answers to question 1a and questions 2a through 5 are yes, a strong rating is appropriate.
- If the answers to question 1b and questions 2a through 5 are yes, a satisfactory rating is appropriate.
- If the answer to question 1c is yes or the answer to any of questions 2a through 5 is no, the rating is unsatisfactory.

3.D. Monitoring Customer Interday Payment Activity

	<u>Yes</u>	<u>No</u>
1. Do interday monitoring systems for ACH credit transactions capture		
a. 100 percent of the value of ACH credit transactions originated by settlement date?	_____	_____
b. At least 80 percent of the value of ACH credit transactions originated by settlement date?	_____	_____
c. Less than 80 percent of ACH credit transactions originated by settlement date?	_____	_____
2. Do monitoring systems for ACH credit transactions pend or reject transactions in real time that would cause limits (including collateral) to be breached for customers that have been identified by a credit assessment to be in weak financial condition?	_____	_____
3. Do monitoring systems track return item exposure (check and ACH debit transactions) for financially weakened customers?	_____	_____

Rating Customer Interday Payment Activity:

- A strong rating is appropriate if the answers to questions 1a, 2, and 3 are yes.
- A satisfactory rating is appropriate if the answers to questions 1b, 2, and 3 are yes.
- An unsatisfactory rating results if the answer to question 1c is yes or the answer to question 2 or 3 is no.

3.E. Overall Rating: Customer Credit Policies and Controls

The matrix below should be used to combine the ratings for the sections of this component into an overall rating for the self-assessment.

Credit Policies	Customer & counterparty creditworthiness	Monitoring intraday payment activity	Monitoring interday payment activity	Overall customer credit policies and controls rating
Satisfactory	Satisfactory	Strong	Strong	Strong
Satisfactory	Satisfactory	Satisfactory	Strong	Satisfactory
Satisfactory	Satisfactory	Strong	Satisfactory	Satisfactory
Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Unsatisfactory	Any rating	Any rating	Any rating	Unsatisfactory
Any rating	Unsatisfactory	Any rating	Any rating	Unsatisfactory
Any rating	Any rating	Unsatisfactory	Any rating	Unsatisfactory
Any rating	Any rating	Any rating	Unsatisfactory	Unsatisfactory

Overall Customer Credit Policies and Controls Rating:	
--	--

4. Assessment of Operating Controls and Contingency Procedures

	<u>Yes</u>	<u>No</u>
4. A. Internal Operating Controls		
1. Are controls in place to prevent the unauthorized initiation of a transaction or the unauthorized payment of a transaction?	_____	_____

Areas that should be considered in answering this question include the following:

- Are appropriate controls (for example, dialback, encryption, access cards) used for protecting sensitive data when dial-in mechanisms are used?
- Does the system software provide for implementation and enforcement of the data access rules and provide audit trails of all system access?
- Are user IDs or terminals shut down after a predetermined number of unsuccessful attempts to access the system?
- Are confidential passwords used and do they provide the basis for individual accountability or system use?
- Are password administration procedures defined and followed (for example, proper authorization of each new user, password suspension if user terminated, and so on)?

2. Are requests for off-line payment processing authenticated before transactions are processed?	_____	_____
--	-------	-------

3. Are payment application programs logically secure and is update access restricted to authorized change management software?	_____	_____
--	-------	-------

Areas that should be considered in answering this question include the following:

- Do controls exist that prevent unauthorized access to production data files, program libraries, and system libraries?

Internal Operating Controls - continued

- Are password files, authorization tables, communications software, and key application programs stored in protected areas or otherwise protected from read and write access?

- 4. Are steps taken to ensure the honesty and integrity of all involved staff members? _____

Rating Internal Operating Controls:

- If the answers to questions 1 through 4 are yes, a satisfactory rating is appropriate.
- If the answer to one or more of questions 1 through 4 is no, an unsatisfactory rating is appropriate.

Internal Operating Controls Rating:	
--	--

4.B. Contingency Procedures

- | | <u>Yes</u> | <u>No</u> |
|---|------------|-----------|
| 1. Has senior management worked with automation management to establish a contingency plan? | _____ | _____ |

Areas that should be considered in answering this question include the following:

- Does the contingency plan include participation from all relevant functional areas within the organization?
 - Does the contingency plan incorporate a detailed notification procedure specifying who should be notified of emergencies?
 - Does the plan categorize and provide specific procedures for different disasters?
- | | | |
|--|-------|-------|
| 2. Does the plan address moving to an off-site facility or have arrangements been made with a third-party for the continuation of vital operations during an outage? | _____ | _____ |
| 3. Have backup considerations such as contingency site selection, contingency site hardware (computers, peripherals, terminals), and contingency site software (compatibility, storage, testing) been addressed? | _____ | _____ |
| 4. Is the contingency plan periodically tested and does testing occur at least annually? | _____ | _____ |

Rating Contingency Procedures:

- A satisfactory rating is appropriate if the answers to questions 1 through 4 are yes.
- An unsatisfactory rating is the result if the answer to any of the four preceding questions is no.

Contingency Procedures Rating:	
---------------------------------------	--

4.C. Overall Rating: Operating Controls and Contingency Procedures

If the rating for either internal operating controls or contingency procedures is unsatisfactory, then an unsatisfactory rating results for this overall component. Otherwise, the rating is satisfactory.

Operating Controls and Contingency Procedures Rating:	
--	--

5. Combining the Four Components

The individual component evaluations should be combined into an overall assessment using table A-4 below.

Table A-4
Combined Assessment of Cap Category

Credit-worthiness	Intraday funds management & control	Customer credit policies & controls	Operating controls & contingency procedures	Overall assessment (cap category)
Excellent	Strong	Strong	Satisfactory	High
Excellent	Strong	Satisfactory	Satisfactory	Above average
Excellent	Satisfactory	Strong	Satisfactory	Above average
Excellent	Satisfactory	Satisfactory	Satisfactory	Above average
Very good	Strong	Strong	Satisfactory	Above average
Very good	Strong	Satisfactory	Satisfactory	Average
Very good	Satisfactory	Strong	Satisfactory	Average
Very good	Satisfactory	Satisfactory	Satisfactory	Average
Adequate	Strong	Strong	Satisfactory	Average
Adequate	Strong	Satisfactory	Satisfactory	Average
Adequate	Satisfactory	Strong	Satisfactory	Average
Adequate	Satisfactory	Satisfactory	Satisfactory	Average
Below standard	Any rating	Any rating	Any rating	Zero
Any rating	Unsatisfactory	Any rating	Any rating	Zero
Any rating	Any rating	Unsatisfactory	Any rating	Zero
Any rating	Any rating	Any rating	Unsatisfactory	Zero

Overall Self-Assessment Rating:

Appendix B: Sample Letters and Resolutions

The sample letters and resolutions included in this appendix are intended for institutions to use as models in complying with the Federal Reserve's PSR policy.

The de minimis cap resolution should be used by those institutions that did not conduct a self-assessment but that require greater use of intraday credit than permitted under the exempt cap category. The self-assessment resolution is required for those institutions that have completed a self-assessment and intend to adopt an average, above average, or high cap category. The maximum daylight overdraft capacity resolution should be completed by institutions that have been approved by their Reserve Bank for collateralized daylight overdraft capacity above their net debit cap. These cap resolutions are discussed further in section II of this manual.

In the resolution that is adopted by the board of directors, the words or phrases that appear in parentheses in the following sample resolutions should be replaced with appropriate text. In some cases, the options available are listed. When completing the self-assessment resolution, note the blank spaces shown to the left of the four components of the self-assessment and the overall assessment rating. The appropriate values for these spaces are to be selected from the following options:

<u>Assessment Component</u>	<u>Rating options</u>
Creditworthiness	Excellent Very good Adequate Below standard
Intraday funds management and control	Strong Satisfactory Unsatisfactory
Customer credit policies and controls	Strong Satisfactory Unsatisfactory

Operating controls and contingency procedures	Satisfactory Unsatisfactory
Overall assessment (Cap category)	High Above average Average Zero cap

The rating assigned must be supported by information in an institution's self-assessment file. For valid combinations of the ratings and the overall assessment, consult section VII of this manual.

Model Resolution 1
De Minimis Cap

I hereby certify that the following resolution was duly adopted at a meeting of the (type of governing body/board of directors) of the (official name of institution) (the "Institution"), duly authorized and existing under the laws of (state/United States), which meeting was duly called and held on the ___ day of _____, 20__, and that those resolutions are now in full force and effect and are not in conflict with any provisions in the certificate of incorporation, statutes, or bylaws of the Institution.

WHEREAS, the Board of Governors of the Federal Reserve System has announced a policy of reducing risks on payment systems that requires each depository institution that incurs daylight overdrafts in its Federal Reserve account to adopt a net debit cap category; and

WHEREAS, this Institution desires to comply with the Federal Reserve's policy; and

WHEREAS, the board of directors has this day met and considered the report submitted by management that addresses how the Institution plans to comply with the Federal Reserve's policy and that makes recommendations regarding a net debit cap category,

NOW, THEREFORE, be it resolved that the board of directors hereby adopts the *de minimis* cap as its net debit cap category.

RESOLVED, that these resolutions and all the powers and authorizations hereby granted or confirmed shall continue in full force and effect until written notice of their revocation shall have been given to and received by the Reserve Bank or for one year, whichever occurs earlier.

IN WITNESS HEREOF, I, the undersigned, (Cashier/Comptroller/Secretary) of the Institution, have hereunto subscribed my name.

(Signature of Secretary to the Board of Directors)

(Name of Depository Institution)

(Address)

(City, State, and Zip)

(Date)

(ABA Routing Number)

Model Resolution 2
Self-Assessment Cap

I hereby certify that the following resolution was duly adopted at a meeting of the (type of governing body/board of directors) of the (official name of institution) (the "Institution"), duly authorized and existing under the laws of (state/United States), which meeting was duly called and held on the ___ day of ____, 20__, and that those resolutions are now in full force and effect and are not in conflict with any provisions in the certificate of incorporation, statutes, or bylaws of the Institution.

WHEREAS, the Board of Governors of the Federal Reserve System has announced a policy of reducing risks on payment systems that requires each depository institution that incurs daylight overdrafts in its Federal Reserve account to adopt a net debit cap category; and

WHEREAS, this Institution desires to comply with the Federal Reserve's policy; and

WHEREAS, the board of directors has this day met and considered the report submitted by management that assesses the Institution's creditworthiness, intraday funds management and controls, customer credit policies and controls, and operating controls and contingency procedures, in accordance with the Federal Reserve's guidelines, and that makes recommendations regarding self-assessment ratings, an overall self-assessment, and a net debit cap category,

NOW, THEREFORE, be it resolved that the board of directors hereby adopts the following self-assessment ratings and net debit cap category:

- Creditworthiness
Intraday funds management and control
Customer credit policies and controls
Operating controls and contingency procedures
Overall assessment

Daylight overdraft cap category (High, Above average, Average)

RESOLVED, that these resolutions and all the powers and authorizations hereby granted or confirmed shall continue in full force and effect until written notice of their revocation shall have been given to and received by the Reserve Bank or for one year, whichever occurs earlier.

IN WITNESS HEREOF, I, the undersigned, (Cashier/Comptroller/Secretary) of the Institution, have hereunto subscribed my name.

(Signature of Secretary to the Board of Directors)

(Name of Depository Institution)

(Address)

(City, State, and Zip)

(Date)

(ABA Routing Number)

Model Resolution 3
Maximum Daylight Overdraft Capacity

I hereby certify that the following resolution was duly adopted at a meeting of the (Type of governing body/Board of directors) of the (Official name of institution) (the "Institution"), duly authorized and existing under the laws of (State/United States), which meeting was duly called and held on the ___ day of _____, 20__, and that those resolutions are now in full force and effect and are not in conflict with any provisions in the certificate of incorporation, statutes, or bylaws of the Institution.

WHEREAS, the Board of Governors of the Federal Reserve System has announced a policy of reducing risks on payment systems that requires each depository institution that incurs daylight overdrafts in its Federal Reserve account to adopt a net debit cap category, and, under certain conditions, allows a depository institution to pledge eligible collateral for the purposes of expanding intraday capacity beyond the net debit cap; and

WHEREAS, this Institution desires to comply with the Federal Reserve's policy and desires to expand its daylight overdraft capacity through the pledging of collateral; and

WHEREAS, the board of directors hereby has this day met and considered the report submitted by management that assesses the Institution's creditworthiness, intraday funds management and controls, customer credit policies and controls, and operating controls and contingency procedures, in accordance with the Federal Reserve's guidelines; recommends self-assessment ratings, an overall self-assessment, and a net debit cap category; and assesses the reasons and purposes for and recommends additional daylight overdraft capacity beyond the net debit cap level, subject to the approval of the Federal Reserve Bank of _____;

NOW, THEREFORE, be it resolved that the board of directors hereby adopts the following self-assessment ratings and net debit cap category:

- Creditworthiness _____
- Intraday funds management and control _____
- Customer credit policies and controls _____
- Operating controls and contingency procedures _____
- Overall assessment _____
- Daylight overdraft cap category (High, Above average, Average)

AND, be it further resolved that the Board of Directors authorizes a maximum daylight overdraft capacity limit of \$_____ and agrees that any daylight credit use beyond the net debit cap level and up to the maximum daylight overdraft capacity limit must be collateralized

and agrees to pledge collateral acceptable to the Federal Reserve Bank of _____ in form to support such increased usage.¹¹⁵

RESOLVED, that these resolutions and all the powers and authorizations hereby granted or confirmed shall continue in full force and effect until written notice of their revocation shall have been given to and received by the Reserve Bank or for one year, whichever occurs earlier.

IN WITNESS HEREOF, I, the undersigned, (Cashier/Comptroller/Secretary) of the Institution, have hereunto subscribed my name.

(Signature of Secretary to the Board of Directors)

(Name of Depository Institution)

(Address)

(City, State, and Zip)

(Date)

(ABA Routing Number)

¹¹⁵ The Reserve Banks may accept securities in transit on the Fedwire book-entry securities system as collateral to support an institution's maximum daylight overdraft capacity level. "Securities in transit" refers to book-entry securities transferred over the National Book-Entry System that have been purchased by a depository institution but not yet paid for and owned by the institution's customers. The pledging of securities in transit requires the institution to keep records sufficient to demonstrate its continuing compliance with its obligations under the PSR policy. The institution shall supply biweekly reports to the Reserve Bank showing the values, at specified intervals, for the loan value of the aggregate amount of collateral pledged, the aggregate amount of the extensions of credit, and the amount of the Fedwire securities overdraft as reflected on its books.

Model Letter 1
Nonbank and Industrial Bank Certification Letter

Section 225.52(b)(2) of Federal Reserve Regulation Y prohibits nonbank banks and industrial banks from incurring an overdraft on behalf of, or by, an affiliate at a Federal Reserve Bank except under certain conditions. An affiliate is any company that controls an institution, is controlled by an institution, or under common control with an institution.

Because (Official name of institution) does not currently have any accounts for affiliates, I hereby certify that any overdrafts incurred by our institution would not be in violation of section 225.52 of Regulation Y. I further certify that the Federal Reserve will be notified should the status regarding affiliate accounts change. This certification will be updated annually.

(Authorized Signature)

(Name)

(Title)

(Telephone Number)

Model Letter 2
Foreign Bank Family Cap Allocation Letter

(Address to daylight overdraft contact at
Administrative Reserve Bank)

This is to notify you that (Official name of institution) allocates a portion of its net debit cap of (U.S. dollar amount) to its branch(es) or agency(ies) in the Federal Reserve Districts listed below. No explicit allocation is made to the bank's office in this District, because it is our understanding that any part of our cap not allocated to offices in other Districts will automatically be allocated to our office in this District.

Federal Reserve District	Cap Allocation (US \$)
_____	_____
_____	_____
_____	_____

(Authorized Signature)

(Name)

(Title)

(Telephone Number)

Appendix C: Capital Measures

This appendix provides information, by type of institution, on capital measures used for daylight overdraft cap and fee calculation. In most cases, capital information is submitted to the primary regulator or supervisor using specific forms and reports, which are indicated below.

1. Most U.S. banks, including

- U.S.-chartered commercial banks
- Nonbank banks
- Bankers' banks
- Industrial banks
- Federally insured mutual savings banks
- Federal savings banks
- FDIC-insured cooperative banks.

Risk-based capital (that is, Tier 1 plus Tier 2 capital) for these institutions is calculated from data reported on the Federal Financial Institutions Examination Council (FFIEC) forms 031-034. For most banks, Tier 1 capital will equal common stockholders' equity capital less goodwill and other disallowed intangible assets, and Tier 2 capital will equal the allowable portion of the allowance for loan and lease losses and is further limited to 100 percent of Tier 1 capital. Please refer to the instructions for FFIEC forms 031-034, schedule RC-R for a discussion of Tier 1 and Tier 2 capital.

2. Certain savings institutions, including

- Insured savings and loan associations
- Uninsured savings and loan associations that are on Savings Association Insurance Fund (SAIF) files
- SAIF-insured cooperative banks.

These institutions report capital data on the Thrift Financial Report, schedule CCR (Consolidated Capital Requirement):

Total Risk-Based Capital (line 39).

3. Other savings institutions, including

- Uninsured savings and loan associations that are not on Office of Thrift Supervision files
- Mutual savings banks (state or privately insured).

A Report of Condition is not filed by these institutions. Reserve Bank staff obtains capital information directly from these institutions for daylight overdraft cap calculation purposes.

4. Credit unions:

- Federally insured credit unions
- Credit unions not federally insured that are on National Credit Union Association (NCUA) files.

These institutions report capital data on the NCUA Financial Statistical Report (NCUA 5300):

Regular reserves (Acct. 931) +
Undivided earnings (Acct. 940) +
Other reserves (Acct. 658) +
Appropriation for non-conforming investments (SCU only, Acct. 668) +
Uninsured secondary capital (low income designated credit unions only, Acct. 925) +
Net income (unless this amount is already included in undivided earnings, Acct. 602).

5. Corporate credit unions:

These institutions report capital data on the NCUA Financial Statistical Report (NCUA 5310, refer to Schedule C-1 for capital data):

Qualifying membership capital, net of amortization (MDRM 8458) +
Corporate reserves (MDRM 4114) +
Other reserves (MDRM 3260) +
Undivided earnings (MDRM 1243) +
Accumulated net income/loss (MDRM 4679) +
Paid-in capital, members (MDRM A977) +
Paid-in capital, non-members (MDRM 4236).

6. U.S. Branches and Agencies of Foreign Banks:

These institutions report capital data on the Annual Daylight Overdraft Capital Report for U.S. Branches and Agencies of Foreign Banks (FR 2225):

Daylight overdraft capital base (line 3)

or

Report of Assets and Liabilities for U.S. Branches and Agencies of Foreign Banks
(FFIEC 002) Schedule RAL:

Net due to related depository institutions (Item 5.a., Column A (RCFD 2944)).

See section V for further information on capital measures for U.S. branches and agencies of foreign banks.

Glossary

Above-average cap—The cap category that permits an institution to incur daylight overdrafts on a single day up to 1.875 times its capital measure.

Account Balance Monitoring System (ABMS)—The Reserve Bank application that provides institutions that have an electronic connection to Fedwire with access to real-time account balance and collateral information. ABMS also allows Reserve Banks to monitor institutions' account balances and payment activity on a real-time basis and reject or intercept certain transactions. Also see real-time monitoring.

Account Management Information (AMI)—A web-based application that provides institutions with real-time access to their intraday account and collateral balances, detailed transaction information, reporting, and inquiry capabilities. For further information refer to <http://www.frbservices.org/serviceofferings/account/ami.html>.

Administrative Reserve Bank (ARB)—The Reserve Bank responsible for the administration of Federal Reserve credit, reserves, and risk management policies for a given depository institution or other legal entity.

Affiliate—Any company that controls, is controlled by, or is under common control with, a bank or nonbank bank (according to Federal Reserve Regulation Y).

Agreement corporation—A corporate subsidiary of a federal- or state-chartered bank having an agreement or undertaking with the Board of Governors, under section 25 of the Federal Reserve Act, to engage in international banking and investments.

ACH—Automated Clearing House. An electronic batch processing service used to disburse or collect funds.

Average cap—The cap category that permits an institution to incur daylight overdrafts on a single day up to 1.125 times its capital measure.

Average daily daylight overdraft—The amount resulting from the division of the sum of an institution's negative Federal Reserve account balances at the end of each minute of the scheduled Fedwire operating day (with positive balances set to zero) by the total number of minutes in the scheduled Fedwire operating day.

Bank holding company (BHC)—Any company that has direct or indirect control of a bank. The Bank Holding Company Act provides a federal framework for the supervision and regulation of companies that own or control a bank. (Pub. L. No. 100-86, 101 Stat. 552, available at <http://www.fdic.gov/regulations/laws/rules/6000-100.html>)

Bankers' bank—An institution organized and chartered solely to do business with other financial institutions, and primarily owned by the financial institutions that it services. The term includes corporate credit unions. A bankers' bank is a depository institution that is not required to maintain reserves under the Board's Regulation D (12 CFR 204). Bankers' banks do not take deposits or make loans to the public and are not eligible for discount window access unless they waive their exemption from reserve requirements.

Board of directors' resolution—A statement of intention to follow a course of action that is approved by a majority vote of a quorum of the board of directors of a corporation. In the context of the PSR policy, a board of directors' resolution would be adopted to convey approval to a Reserve Bank of a net debit cap category or max cap.

Board of Governors (Board)—The Board of Governors of the Federal Reserve System.

Book-entry securities transfer—Generally, an electronic transfer of Fedwire-eligible securities (such as securities issued by the U.S. Treasury or a government agency) over the Fedwire Securities Service.

Borrower-in-Custody (BIC) Arrangement —An agreement under which the pledging institution retains possession of assets being pledged as collateral but must designate the BIC collateral as being pledged to the Reserve Bank.

Cap—See **Net debit cap**.

Cap breach—An event in which the negative end-of-minute balance in an institution's Federal Reserve account on any day exceeds its net debit cap.

Cap category—An institution's category or class for purposes of determining its daylight overdraft limit, or net debit cap. There are six cap categories: zero, exempt-from-filing, de minimis, average, above average, and high. The average, above-average, and high cap categories are referred to as the self-assessed net debit caps. DIs with self-assessed caps may be eligible to apply for maximum daylight overdraft capacity (max cap).

Cap multiple—The factor associated with each cap category that is applied to capital for the purpose of calculating the net debit cap.

Capital measure—For depository 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. The U.S. capital equivalency measure for branches and agencies of foreign banks is based on their strength of support assessment ranking and financial holding company status.

Collateral available for daylight overdraft purposes—An institution’s value of Federal Reserve collateral pledged less any outstanding loan advances. When assessing fees, the Federal Reserve compares, ex post, an institution’s end-of-minute value of collateral available for daylight overdraft purposes with the institution’s end-of-minute daylight overdraft to determine whether and how much of that minute’s overdraft was collateralized. Institutions with access to ABMS or to AMI may view their collateral available for daylight overdraft purposes in near-real-time intraday.

Collateral Management System—The Federal Reserve’s collateral inventory tracking and transaction processing application that is used to record collateral pledged for discount window, payment system risk, and Treasury programs.

Collateral value— The amount of credit that the Federal Reserve will extend against the pledged asset. Collateral value is calculated by multiplying a pledged asset’s observed market price or estimated fair value by the margin assigned to the asset by the Federal Reserve.

Collateralized capacity – The additional daylight overdraft capacity available to an institution with an approved max cap through the pledge of collateral. The collateralized capacity available to such institution is calculated as the difference between the approved max cap and the institution’s net debit cap. An institution with an approved max cap may, at any time, pledge collateral to use the collateralized capacity in part or in full.

Collateralized daylight overdraft – An institution’s end-of-minute daylight overdraft if the institution’s end-of-minute value of collateral available for daylight overdraft purposes meets or exceeds the value of its daylight overdraft for that minute. See collateral available for daylight overdraft purposes.

Competitive Equality Banking Act (CEBA)—A federal law enacted August 10, 1987, that, among other things, prohibits nonbank banks and industrial banks from incurring daylight overdrafts in their Federal Reserve accounts on behalf of affiliates.

Corporate credit unions—See **Bankers’ bank**.

Daylight overdraft—A negative balance in an institution’s Federal Reserve account at any time during the Fedwire operating day.

Daylight Overdraft Reporting and Pricing System (DORPS)—The Reserve Bank application that measures, calculates, and assesses fees to institutions for their use of daylight overdrafts in their Federal Reserve accounts.

Depository Trust Company (DTC)—A limited-purpose trust company that acts as the central securities depository for most publicly traded equity securities and many fixed-income securities in the U.S. market. Each Reserve Bank has established a pledge account with DTC through which institutions may pledge securities for discount window and PSR purposes.

De minimis cap—The cap category that permits an institution to incur daylight overdrafts up to a net debit cap equal to 40 percent of its capital measure.

Edge Act corporation—A corporate subsidiary of a domestic or foreign bank, established under section 25(a) of the Federal Reserve Act to engage in international banking and investments.

Effective daily rate—The annual rate charged for daylight overdrafts divided by 360 days, adjusted for the portion of the day during which the Fedwire funds transfer system is officially operating.

End-of-minute balance—The balance in an institution's Federal Reserve account at the end of each minute as measured by DORPS for purposes of daylight overdraft reporting and pricing.

Exempt-from-filing cap—The cap category that permits an institution to incur daylight overdrafts up to a cap equal to the lesser of \$10 million or 20 percent of its capital measure.

Fedwire—The Federal Reserve funds and book-entry government securities transfer system.

Fedwire Securities Service (FSS) —A system that provides safekeeping, transfer, and delivery-versus-payment settlement services for securities maintained on the books of the Reserve Banks. FSS maintains in electronic form all marketable U.S. Treasury securities, as well as many federal government agency, government-sponsored enterprise (GSE), and certain international organizations securities. Institutions may pledge eligible FSS securities to their Reserve Bank for discount window and PSR purposes.

Fee waiver—Institutions that incur fees for a two-week reserve maintenance period under \$150 will not be assessed any fees, and institutions incurring fees for a two-week reserve maintenance period over \$150 will have their gross fees reduced by \$150. The fee waiver is not available for institutions that do not have regular access to the discount window.

Field warehouse—An arrangement whereby collateral pledged to the Reserve Bank is held on the pledging institution's premises under the Reserve Bank's exclusive custody and control.

Financial holding company (FHC)—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 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)).

Foreign banking organization (FBO)— (1) A foreign bank, as defined in section 1(b)(7) of the International Banking Act of 1978 (12 U.S.C. 3101(7)), that (a) operates a branch, agency, or commercial lending company subsidiary in the United States, (b) controls a bank in the United States; or (c) controls an Edge corporation acquired after March 5, 1987, and (2) any company of which the foreign bank is a subsidiary.

Fully collateralized cap breach waiver— An institution with a self assessed or de minimis net debit cap may exceed its net debit cap without violating the policy if the institution has fully collateralized all cap breaches on a given day. Under the waiver, institutions may fully collateralize up to two cap breaches in two consecutive reserve maintenance periods (four weeks).

Government-sponsored enterprises (GSEs)— Corporations chartered by Congress to perform certain financial market functions deemed to be in the public interest. These entities include Fannie Mae, the Federal Home Loan Mortgage Corporation (Freddie Mac), entities of the Federal Home Loan Bank (FHLB) System and the Farm Credit Bank (FCB) System, Federal Agricultural Mortgage Corporation (Farmer Mac), the Financing Corporation, and the Resolution Funding Corporation.

Gross overdraft charge—A daylight overdraft charge calculated, based on average overdrafts, before being reduced by the fee waiver for eligible institutions.

High cap—The cap category that permits an institution to incur daylight overdrafts on a single day up to 2.25 times its capital measure.

Industrial bank—An institution as defined in section 2(c)(2)(H) of the Bank Holding Company Act. In general, an industrial bank is a state-chartered finance company that makes loans and raises funds by selling investment certificates or investment shares to the public.

Industrial loan company (ILC)—An entity that is not a bank, as defined under the Bank Holding Company Act (BHCA), and that does not accept certain types of demand deposits, has less than \$100 million in total assets, or has not undergone any change in control since the enactment of CEBA. An ILC is also excluded from the definition of bank under the BHCA if it does not “engage in any activity in which it was not lawfully engaged” before the enactment of CEBA.

International organizations—The Federal Reserve acts as fiscal agent for certain international organizations, the securities of which are Fedwire-eligible but are not obligations of, or fully guaranteed as to principal and interest by, the United States. The international organizations include the World Bank, the Inter-American Development Bank, the Asian Development Bank, and the African Development Bank.

In-transit securities—Book-entry securities transferred over the Fedwire Securities Service that have been purchased by a depository institution but not yet paid for and owned by the institution’s customers.

Limited-purpose trust company—For purposes of the PSR 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)).

Liquidity—The ability to make payments as they become due in readily available funds.

Margin—A percentage applied to the observed market price or estimated fair market value of an asset to mitigate the risk that the observed market price or estimated market value of an asset will decline over time. The Federal Reserve’s margins are based on risk characteristics of the pledged asset as well as the anticipated volatility of the fair market value of the pledged asset over an estimated liquidation time frame.

Maximum daylight overdraft capacity—An institution’s net debit cap plus its collateralized capacity. (See collateralized capacity.) Only institutions with self-assessed net debit caps are eligible to request maximum daylight overdraft capacity from the Federal Reserve.

Net debit cap—The maximum dollar amount of collateralized and uncollateralized daylight overdrafts an institution is permitted to incur in its Federal Reserve account at any point in the day. The net debit cap is generally equal to an institution’s capital measure times the cap multiple for its cap category.

Net debit position —A negative intraday or interday balance in an account or a negative position with an institution's counterparties in a private clearing and settlement arrangement.

Nonbank bank—In general, an institution that accepts deposits or makes commercial loans, but does not engage in both activities. A nonbank bank is any institution that became a bank as a result of the enactment of CEBA and was not controlled by a bank holding company on the day before the CEBA enactment.

Overdraft—See daylight overdraft, overnight overdraft.

Overnight overdraft—A negative position in a Federal Reserve account at the Reserve Bank’s close of business. Overnight overdrafts are subject to the overnight overdraft penalty fee. The base rate of this penalty fee is the effective funds rate prevailing on the date the overnight overdraft occurred plus four percentage points. An additional percentage point is added for each overdraft over three within a twelve-month period. The minimum charge per occurrence is \$100. Overnight overdrafts, unlike daylight overdrafts for eligible institutions, will not receive a zero price even if an institution has enough collateral available for daylight overdraft purposes pledged to cover the overnight overdraft.

Posting rules—A schedule used for determining the timing of debits and credits to an institution’s Federal Reserve account for various transactions processed by the Reserve Banks.

PSR policy—The Federal Reserve Policy on Payment System Risk. Part II of the policy is most relevant for purposes of this guide. For further information refer to http://www.federalreserve.gov/paymentsystems/psr_policy.htm.

Real-time monitoring—The ABMS function that provides Reserve Banks with the ability to monitor an institution’s Federal Reserve account balance as transactions occur throughout the day and to reject or intercept outgoing funds transfers when they would cause an overdraft in an institution’s Federal Reserve account.

Reserve maintenance period (RMP)—A two-week period beginning on a Thursday and ending on a Wednesday over which most depository institutions must maintain required reserves and over which daylight overdrafts are monitored and charges may be assessed. Institutions that file a quarterly FR 2900 deposit report have a seven-day reserve maintenance period.

Risk-based capital— The “qualifying” or similar capital measure used to satisfy risk-based capital standards, as set forth in the capital adequacy guidelines of the federal financial regulatory agencies. Generally, for domestic banks the relevant capital measure is Tier I plus Tier II capital. Descriptions of capital measures, by type of institution, and related regulatory reports can be found in appendix C.

Self-assessment—A process by which a depository institution assesses its own creditworthiness, intraday funds management, operational controls, contingency procedures, and credit policies in order to determine its appropriate cap category for daylight overdraft purposes.

Self-assessed cap—One of three cap categories for which institutions are required to complete a self-assessment. The self-assessment cap categories are average, above average, or high.

Systemic risk—The risk that the failure of or a disruption to the functioning of a financial market utility or a financial institution could create or increase the risk of significant liquidity or credit problems spreading among financial institutions or markets and thereby threaten the stability of the US financial system.

Third Party Custody Pledging Arrangements —An institution may designate a third party custodian to provide collateral custody services. Third party custody arrangements involve an institution (borrower), another institution that holds the assets to be pledged (custodian), and the Reserve Bank (lender).

Treasury Tax and Loan (TT&L) — A program where institutions collect tax payments or deposits on behalf of Treasury. Institutions must cover the funds with collateral and must pay Treasury interest for use of the funds. Collateral pledged for this program is held in the TT&L account, which is separate from an institution’s FR account.

Uncollateralized daylight overdraft – An institution’s end-of-minute daylight overdraft if the institution’s end-of-minute value of collateral available for daylight overdraft purposes is less than the value of its daylight overdraft for that minute. See collateral available for daylight overdraft purposes.

U.S. capital equivalency—Capital measure applied to U.S. branches and agencies of foreign banks for purposes of calculating net debit caps and the deductible used to calculate daylight overdraft charges.

Zero cap—The cap category associated with a cap multiple of zero and resulting in a net debit cap of zero. An institution may voluntarily adopt this cap category, or a Reserve Bank may assign a zero cap to certain institutions.