

approved by the board of directors that addresses the bank holding company's approach for determining its market risk disclosures. The policy must address the associated internal controls and disclosure controls and procedures. The board of directors and senior management must ensure that appropriate verification of the disclosures takes place and that effective internal controls and disclosure controls and procedures are maintained. One or more senior officers of the bank holding company must attest that the disclosures meet the requirements of this appendix, and the board of directors and senior management are responsible for establishing and maintaining an effective internal control structure over financial reporting, including the disclosures required by this section.

(c) *Quantitative disclosures.*

(1) For each material portfolio of covered positions, the bank holding company must disclose publicly the following information at least quarterly:

(i) The high, low, and mean VaR-based measures over the reporting period and the VaR-based measure at period-end;

(ii) The high, low, and mean stressed VaR-based measures over the reporting period and the stressed VaR-based measure at period-end;

(iii) The high, low, and mean incremental risk capital requirements over the reporting period and the incremental risk capital requirement at period-end;

(iv) The high, low, and mean comprehensive risk capital requirements over the reporting period and the comprehensive risk capital requirement at period-end, with the period-end requirement broken down into appropriate risk classifications (for example, default risk, migration risk, correlation risk);

(v) Separate measures for interest rate risk, credit spread risk, equity price risk, foreign exchange risk, and commodity price risk used to calculate the VaR-based measure; and

(vi) A comparison of VaR-based estimates with actual gains or losses experienced by the bank holding company, with an analysis of important outliers.

(2) In addition, the bank holding company must disclose publicly the following information at least quarterly:

(i) The aggregate amount of on-balance sheet and off-balance sheet securitization positions by exposure type; and

(ii) The aggregate amount of correlation trading positions.

(d) *Qualitative disclosures.* For each material portfolio of covered positions, the bank holding company must disclose publicly the following information at least annually, or more frequently in the event of material changes for each portfolio:

(1) The composition of material portfolios of covered positions;

(2) The bank holding company's valuation policies, procedures, and methodologies for covered positions including, for securitization positions, the methods and key assumptions used for valuing such positions, any significant changes since the last reporting period, and the impact of such change;

(3) The characteristics of the internal models used for purposes of this appendix. For the incremental risk capital requirement and the comprehensive risk capital requirement, this must include:

(i) The approach used by the bank holding company to determine liquidity horizons;

(ii) The methodologies used to achieve a capital assessment that is consistent with the required soundness standard; and

(iii) The specific approaches used in the validation of these models;

(4) A description of the approaches used for validating and evaluating the accuracy of internal models and modeling processes for purposes of this appendix;

(5) For each market risk category (that is, interest rate risk, credit spread risk, equity price risk, foreign exchange risk, and commodity price risk), a description of the stress tests applied to the positions subject to the factor;

(6) The results of the comparison of the bank holding company's internal estimates for purposes of this appendix with actual outcomes during a sample period not used in model development;

(7) The soundness standard on which the bank holding company's internal capital adequacy assessment under this appendix is based, including a description of the methodologies used to achieve a capital adequacy assessment that is consistent with the soundness standard;

(8) A description of the bank holding company's processes for monitoring changes in the credit and market risk of securitization positions, including how those processes differ for resecuritization positions; and

(8) A description of the bank holding company's policy governing the use of credit risk mitigation to mitigate the risks of securitization and resecuritization positions.

[77 FR 53113, Aug. 30, 2012]

APPENDIX F TO PART 225—INTERAGENCY GUIDELINES ESTABLISHING INFORMATION SECURITY STANDARDS

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I. INTRODUCTION

These Interagency Guidelines Establishing Information Security Standards (Guidelines) set forth standards pursuant to sections 501 and 505 of the Gramm-Leach-Bliley Act (15 U.S.C. 6801 and 6805). These Guidelines address standards for developing and implementing administrative, technical, and physical safeguards to protect the security, confidentiality, and integrity of customer information.

A. *Scope.* The Guidelines apply to customer information maintained by or on behalf of bank holding companies and their nonbank subsidiaries or affiliates (except brokers, dealers, persons providing insurance, investment companies, and investment advisors), for which the Board has supervisory authority.

B. *Preservation of Existing Authority.* These Guidelines do not in any way limit the authority of the Board to address unsafe or unsound practices, violations of law, unsafe or unsound conditions, or other practices. The Board may take action under these Guidelines independently of, in conjunction with, or in addition to, any other enforcement action available to the Board.

C. *Definitions.* 1. Except as modified in the Guidelines, or unless the context otherwise requires, the terms used in these Guidelines have the same meanings as set forth in sections 3 and 39 of the Federal Deposit Insurance Act (12 U.S.C. 1813 and 1831p–1).

2. For purposes of the Guidelines, the following definitions apply:

a. *Board of directors*, in the case of a branch or agency of a foreign bank, means the managing official in charge of the branch or agency.

b. *Customer* means any customer of the bank holding company as defined in §216.3(h) of this chapter.

c. *Customer information* means any record containing nonpublic personal information, as defined in §216.3(n) of this chapter, about a customer, whether in paper, electronic, or other form, that is maintained by or on behalf of the bank holding company.

d. *Customer information systems* means any methods used to access, collect, store, use, transmit, protect, or dispose of customer information.

e. *Service provider* means any person or entity that maintains, processes, or otherwise

is permitted access to customer information through its provision of services directly to the bank holding company.

f. *Subsidiary* means any company controlled by a bank holding company, except a broker, dealer, person providing insurance, investment company, investment advisor, insured depository institution, or subsidiary of an insured depository institution.

II. STANDARDS FOR SAFEGUARDING CUSTOMER INFORMATION

A. *Information Security Program.* Each bank holding company shall implement a comprehensive written information security program that includes administrative, technical, and physical safeguards appropriate to the size and complexity of the bank holding company and the nature and scope of its activities. While all parts of the bank holding company are not required to implement a uniform set of policies, all elements of the information security program must be coordinated. A bank holding company also shall ensure that each of its subsidiaries is subject to a comprehensive information security program. The bank holding company may fulfill this requirement either by including a subsidiary within the scope of the bank holding company's comprehensive information security program or by causing the subsidiary to implement a separate comprehensive information security program in accordance with the standards and procedures in sections II and III of this appendix that apply to bank holding companies.

B. *Objectives.* A bank holding company's information security program shall be designed to:

1. Ensure the security and confidentiality of customer information;
2. Protect against any anticipated threats or hazards to the security or integrity of such information; and
3. Protect against unauthorized access to or use of such information that could result in substantial harm or inconvenience to any customer.

III. DEVELOPMENT AND IMPLEMENTATION OF INFORMATION SECURITY PROGRAM

A. *Involve the Board of Directors.* The board of directors or an appropriate committee of the board of each bank holding company shall:

1. Approve the bank holding company's written information security program; and
2. Oversee the development, implementation, and maintenance of the bank holding company's information security program, including assigning specific responsibility for its implementation and reviewing reports from management.

B. *Assess Risk.* Each bank holding company shall:

1. Identify reasonably foreseeable internal and external threats that could result in unauthorized disclosure, misuse, alteration, or destruction of customer information or customer information systems.

2. Assess the likelihood and potential damage of these threats, taking into consideration the sensitivity of customer information.

3. Assess the sufficiency of policies, procedures, customer information systems, and other arrangements in place to control risks.

C. Manage and Control Risk. Each bank holding company shall:

1. Design its information security program to control the identified risks, commensurate with the sensitivity of the information as well as the complexity and scope of the bank holding company's activities. Each bank holding company must consider whether the following security measures are appropriate for the bank holding company and, if so, adopt those measures the bank holding company concludes are appropriate:

a. Access controls on customer information systems, including controls to authenticate and permit access only to authorized individuals and controls to prevent employees from providing customer information to unauthorized individuals who may seek to obtain this information through fraudulent means.

b. Access restrictions at physical locations containing customer information, such as buildings, computer facilities, and records storage facilities to permit access only to authorized individuals;

c. Encryption of electronic customer information, including while in transit or in storage on networks or systems to which unauthorized individuals may have access;

d. Procedures designed to ensure that customer information system modifications are consistent with the bank holding company's information security program;

e. Dual control procedures, segregation of duties, and employee background checks for employees with responsibilities for or access to customer information;

f. Monitoring systems and procedures to detect actual and attempted attacks on or intrusions into customer information systems;

g. Response programs that specify actions to be taken when the bank holding company suspects or detects that unauthorized individuals have gained access to customer information systems, including appropriate reports to regulatory and law enforcement agencies; and

h. Measures to protect against destruction, loss, or damage of customer information due to potential environmental hazards, such as fire and water damage or technological failures.

2. Train staff to implement the bank holding company's information security program.

3. Regularly test the key controls, systems and procedures of the information security program. The frequency and nature of such tests should be determined by the bank holding company's risk assessment. Tests should be conducted or reviewed by independent third parties or staff independent of those that develop or maintain the security programs.

D. Oversee Service Provider Arrangements. Each bank holding company shall:

1. Exercise appropriate due diligence in selecting its service providers;

2. Require its service providers by contract to implement appropriate measures designed to meet the objectives of these Guidelines; and

3. Where indicated by the bank holding company's risk assessment, monitor its service providers to confirm that they have satisfied their obligations as required by paragraph D.2. As part of this monitoring, a bank holding company should review audits, summaries of test results, or other equivalent evaluations of its service providers.

E. Adjust the Program. Each bank holding company shall monitor, evaluate, and adjust, as appropriate, the information security program in light of any relevant changes in technology, the sensitivity of its customer information, internal or external threats to information, and the bank holding company's own changing business arrangements, such as mergers and acquisitions, alliances and joint ventures, outsourcing arrangements, and changes to customer information systems.

F. Report to the Board. Each bank holding company shall report to its board or an appropriate committee of the board at least annually. This report should describe the overall status of the information security program and the bank holding company's compliance with these Guidelines. The reports should discuss material matters related to its program, addressing issues such as: risk assessment; risk management and control decisions; service provider arrangements; results of testing; security breaches or violations and management's responses; and recommendations for changes in the information security program.

G. Implement the Standards.

1. *Effective date.* Each bank holding company must implement an information security program pursuant to these Guidelines by July 1, 2001.

2. *Two-year grandfathering of agreements with service providers.* Until July 1, 2003, a contract that a bank holding company has entered into with a service provider to perform services for it or functions on its behalf satisfies the provisions of section III.D., even

if the contract does not include a requirement that the servicer maintain the security and confidentiality of customer information, as long as the bank holding company entered into the contract on or before March 5, 2001.

SUPPLEMENT A TO APPENDIX F TO PART 225—
INTERAGENCY GUIDANCE ON RESPONSE PROGRAMS FOR UNAUTHORIZED ACCESS TO CUSTOMER INFORMATION AND CUSTOMER NOTICE

I. BACKGROUND

This Guidance¹ interprets section 501(b) of the Gramm-Leach-Bliley Act (“GLBA”) and the Interagency Guidelines Establishing Information Security Standards (the “Security Guidelines”)² and describes response programs, including customer notification procedures, that a financial institution should develop and implement to address unauthorized access to or use of customer information that could result in substantial harm or inconvenience to a customer. The scope of, and definitions of terms used in, this Guidance are identical to those of the Security Guidelines. For example, the term “customer information” is the same term used in the Security Guidelines, and means any record containing nonpublic personal information about a customer, whether in paper, electronic, or other form, maintained by or on behalf of the institution.

A. *Interagency Security Guidelines*

Section 501(b) of the GLBA required the Agencies to establish appropriate standards for financial institutions subject to their jurisdiction that include administrative, technical, and physical safeguards, to protect the security and confidentiality of customer information. Accordingly, the Agencies issued Security Guidelines requiring every financial institution to have an information security program designed to:

1. Ensure the security and confidentiality of customer information;
2. Protect against any anticipated threats or hazards to the security or integrity of such information; and

¹This Guidance is being jointly issued by the Board of Governors of the Federal Reserve System (Board), the Federal Deposit Insurance Corporation (FDIC), the Office of the Comptroller of the Currency (OCC), and the Office of Thrift Supervision (OTS).

²12 CFR part 30, app. B (OCC); 12 CFR part 208, app. D-2 and part 225, app. F (Board); 12 CFR part 364, app. B (FDIC); and 12 CFR part 570, app. B (OTS). The “Interagency Guidelines Establishing Information Security Standards” were formerly known as “The Interagency Guidelines Establishing Information Security Standards.”

3. Protect against unauthorized access to or use of such information that could result in substantial harm or inconvenience to any customer.

B. *Risk Assessment and Controls*

1. The Security Guidelines direct every financial institution to assess the following risks, among others, when developing its information security program:

- a. Reasonably foreseeable internal and external threats that could result in unauthorized disclosure, misuse, alteration, or destruction of customer information or customer information systems;
- b. The likelihood and potential damage of threats, taking into consideration the sensitivity of customer information; and
- c. The sufficiency of policies, procedures, customer information systems, and other arrangements in place to control risks.³

2. Following the assessment of these risks, the Security Guidelines require a financial institution to design a program to address the identified risks. The particular security measures an institution should adopt will depend upon the risks presented by the complexity and scope of its business. At a minimum, the financial institution is required to consider the specific security measures enumerated in the Security Guidelines,⁴ and adopt those that are appropriate for the institution, including:

- a. Access controls on customer information systems, including controls to authenticate and permit access only to authorized individuals and controls to prevent employees from providing customer information to unauthorized individuals who may seek to obtain this information through fraudulent means;
- b. Background checks for employees with responsibilities for access to customer information; and
- c. Response programs that specify actions to be taken when the financial institution suspects or detects that unauthorized individuals have gained access to customer information systems, including appropriate reports to regulatory and law enforcement agencies.⁵

C. *Service Providers*

The Security Guidelines direct every financial institution to require its service providers by contract to implement appropriate measures designed to protect against unauthorized access to or use of customer information that could result in substantial harm or inconvenience to any customer.⁶

³See Security Guidelines, III.B.

⁴See Security Guidelines, III.C.

⁵See Security Guidelines, III.C.

⁶See Security Guidelines, II.B. and III.D. Further, the Agencies note that, in addition

II. RESPONSE PROGRAM

Millions of Americans, throughout the country, have been victims of identity theft.⁷ Identity thieves misuse personal information they obtain from a number of sources, including financial institutions, to perpetrate identity theft. Therefore, financial institutions should take preventative measures to safeguard customer information against attempts to gain unauthorized access to the information. For example, financial institutions should place access controls on customer information systems and conduct background checks for employees who are authorized to access customer information.⁸ However, every financial institution should also develop and implement a risk-based response program to address incidents of unauthorized access to customer information in customer information systems⁹ that occur nonetheless. A response program should be a key part of an institution's information security program.¹⁰ The program should be appropriate to the size and com-

to contractual obligations to a financial institution, a service provider may be required to implement its own comprehensive information security program in accordance with the Safeguards Rule promulgated by the Federal Trade Commission ("FTC"), 16 CFR part 314.

⁷The FTC estimates that nearly 10 million Americans discovered they were victims of some form of identity theft in 2002. See The Federal Trade Commission, *Identity Theft Survey Report*, (September 2003), available at <http://www.ftc.gov/os/2003/09/synovatereport.pdf>.

⁸Institutions should also conduct background checks of employees to ensure that the institution does not violate 12 U.S.C. 1829, which prohibits an institution from hiring an individual convicted of certain criminal offenses or who is subject to a prohibition order under 12 U.S.C. 1818(e)(6).

⁹Under the Guidelines, an institution's customer information systems consist of all of the methods used to access, collect, store, use, transmit, protect, or dispose of customer information, including the systems maintained by its service providers. See Security Guidelines, I.C.2.d (I.C.2.c for OTS).

¹⁰See FFIEC Information Technology Examination Handbook, Information Security Booklet, Dec. 2002 available at http://www.ffiec.gov/ffiecinfo/base/html_pages/infosec_book_frame.htm. Federal Reserve SR 97-32, Sound Practice Guidance for Information Security for Networks, Dec. 4, 1997; OCC Bulletin 2000-14, "Infrastructure Threats—Intrusion Risks" (May 15, 2000), for additional guidance on preventing, detecting, and responding to intrusions into financial institution computer systems.

plexity of the institution and the nature and scope of its activities.

In addition, each institution should be able to address incidents of unauthorized access to customer information in customer information systems maintained by its domestic and foreign service providers. Therefore, consistent with the obligations in the Guidelines that relate to these arrangements, and with existing guidance on this topic issued by the Agencies,¹¹ an institution's contract with its service provider should require the service provider to take appropriate actions to address incidents of unauthorized access to the financial institution's customer information, including notification to the institution as soon as possible of any such incident, to enable the institution to expeditiously implement its response program.

A. Components of a Response Program

1. At a minimum, an institution's response program should contain procedures for the following:

a. Assessing the nature and scope of an incident, and identifying what customer information systems and types of customer information have been accessed or misused;

b. Notifying its primary Federal regulator as soon as possible when the institution becomes aware of an incident involving unauthorized access to or use of sensitive customer information, as defined below;

c. Consistent with the Agencies' Suspicious Activity Report ("SAR") regulations,¹² notifying appropriate law enforcement authorities, in addition to filing a timely SAR in

¹¹See Federal Reserve SR Ltr. 00-04, Outsourcing of Information and Transaction Processing, Feb. 9, 2000; OCC Bulletin 2001-47, "Third-Party Relationships Risk Management Principles," Nov. 1, 2001; FDIC FIL 68-99, Risk Assessment Tools and Practices for Information System Security, July 7, 1999; OTS Thrift Bulletin 82a, Third Party Arrangements, Sept. 1, 2004.

¹²An institution's obligation to file a SAR is set out in the Agencies' SAR regulations and Agency guidance. See 12 CFR 21.11 (national banks, Federal branches and agencies); 12 CFR 208.62 (State member banks); 12 CFR 211.5(k) (Edge and agreement corporations); 12 CFR 211.24(f) (uninsured State branches and agencies of foreign banks); 12 CFR 225.4(f) (bank holding companies and their nonbank subsidiaries); 12 CFR part 353 (State non-member banks); and 12 CFR 563.180 (savings associations). National banks must file SARs in connection with computer intrusions and other computer crimes. See OCC Bulletin 2000-14, "Infrastructure Threats—Intrusion Risks" (May 15, 2000); Advisory Letter 97-9, "Reporting Computer Related Crimes" (November 19, 1997) (general

Continued

situations involving Federal criminal violations requiring immediate attention, such as when a reportable violation is ongoing:

d. Taking appropriate steps to contain and control the incident to prevent further unauthorized access to or use of customer information, for example, by monitoring, freezing, or closing affected accounts, while preserving records and other evidence;¹³ and

e. Notifying customers when warranted.

2. Where an incident of unauthorized access to customer information involves customer information systems maintained by an institution's service providers, it is the responsibility of the financial institution to notify the institution's customers and regulator. However, an institution may authorize or contract with its service provider to notify the institution's customers or regulator on its behalf.

III. CUSTOMER NOTICE

Financial institutions have an affirmative duty to protect their customers' information against unauthorized access or use. Notifying customers of a security incident involving the unauthorized access or use of the customer's information in accordance with the standard set forth below is a key part of that duty. Timely notification of customers is important to manage an institution's reputation risk. Effective notice also may reduce an institution's legal risk, assist in maintaining good customer relations, and enable the institution's customers to take steps to protect themselves against the consequences of identity theft. When customer notification is warranted, an institution may not forgo notifying its customers of an incident because the institution believes that it may be potentially embarrassed or inconvenienced by doing so.

guidance still applicable though instructions for new SAR form published in 65 FR 1229, 1230 (January 7, 2000)). See also Federal Reserve SR 01–11, Identity Theft and Pretext Calling, Apr. 26, 2001; SR 97–28, Guidance Concerning Reporting of Computer Related Crimes by Financial Institutions, Nov. 6, 1997; FDIC FIL 48–2000, Suspicious Activity Reports, July 14, 2000; FIL 47–97, Preparation of Suspicious Activity Reports, May 6, 1997; OTS CEO Memorandum 139, Identity Theft and Pretext Calling, May 4, 2001; CEO Memorandum 126, New Suspicious Activity Report Form, July 5, 2000; <http://www.ots.treas.gov/BSA> (for the latest SAR form and filing instructions required by OTS as of July 1, 2003).

¹³See FFIEC Information Technology Examination Handbook, Information Security Booklet, Dec. 2002, pp. 68–74.

A. Standard for Providing Notice

When a financial institution becomes aware of an incident of unauthorized access to sensitive customer information, the institution should conduct a reasonable investigation to promptly determine the likelihood that the information has been or will be misused. If the institution determines that misuse of its information about a customer has occurred or is reasonably possible, it should notify the affected customer as soon as possible. Customer notice may be delayed if an appropriate law enforcement agency determines that notification will interfere with a criminal investigation and provides the institution with a written request for the delay. However, the institution should notify its customers as soon as notification will no longer interfere with the investigation.

1. Sensitive Customer Information

Under the Guidelines, an institution must protect against unauthorized access to or use of customer information that could result in substantial harm or inconvenience to any customer. Substantial harm or inconvenience is most likely to result from improper access to *sensitive customer information* because this type of information is most likely to be misused, as in the commission of identity theft. For purposes of this Guidance, *sensitive customer information* means a customer's name, address, or telephone number, in conjunction with the customer's social security number, driver's license number, account number, credit or debit card number, or a personal identification number or password that would permit access to the customer's account. *Sensitive customer information* also includes any combination of components of customer information that would allow someone to log onto or access the customer's account, such as user name and password or password and account number.

2. Affected Customers

If a financial institution, based upon its investigation, can determine from its logs or other data precisely which customers' information has been improperly accessed, it may limit notification to those customers with regard to whom the institution determines that misuse of their information has occurred or is reasonably possible. However, there may be situations where the institution determines that a group of files has been accessed improperly, but is unable to identify which specific customers' information has been accessed. If the circumstances of the unauthorized access lead the institution to determine that misuse of the information is reasonably possible, it should notify all customers in the group.

B. Content of Customer Notice

1. Customer notice should be given in a clear and conspicuous manner. The notice should describe the incident in general terms and the type of customer information that was the subject of unauthorized access or use. It also should generally describe what the institution has done to protect the customers' information from further unauthorized access. In addition, it should include a telephone number that customers can call for further information and assistance.¹⁴ The notice also should remind customers of the need to remain vigilant over the next twelve to twenty-four months, and to promptly report incidents of suspected identity theft to the institution. The notice should include the following additional items, when appropriate:

a. A recommendation that the customer review account statements and immediately report any suspicious activity to the institution;

b. A description of fraud alerts and an explanation of how the customer may place a fraud alert in the customer's consumer reports to put the customer's creditors on notice that the customer may be a victim of fraud;

c. A recommendation that the customer periodically obtain credit reports from each nationwide credit reporting agency and have information relating to fraudulent transactions deleted;

d. An explanation of how the customer may obtain a credit report free of charge; and

e. Information about the availability of the FTC's online guidance regarding steps a consumer can take to protect against identity theft. The notice should encourage the customer to report any incidents of identity theft to the FTC, and should provide the FTC's Web site address and toll-free telephone number that customers may use to obtain the identity theft guidance and report suspected incidents of identity theft.¹⁵

2. The Agencies encourage financial institutions to notify the nationwide consumer reporting agencies prior to sending notices to a large number of customers that include

¹⁴The institution should, therefore, ensure that it has reasonable policies and procedures in place, including trained personnel, to respond appropriately to customer inquiries and requests for assistance.

¹⁵Currently, the FTC Web site for the ID Theft brochure and the FTC Hotline phone number are <http://www.consumer.gov/idtheft> and 1-877-IDTHEFT. The institution may also refer customers to any materials developed pursuant to section 151(b) of the FACT Act (educational materials developed by the FTC to teach the public how to prevent identity theft).

contact information for the reporting agencies.

C. Delivery of Customer Notice

Customer notice should be delivered in any manner designed to ensure that a customer can reasonably be expected to receive it. For example, the institution may choose to contact all customers affected by telephone or by mail, or by electronic mail for those customers for whom it has a valid e-mail address and who have agreed to receive communications electronically.

[66 FR 8636, Feb. 1, 2001, as amended at 70 FR 15751, 15753, Mar. 29, 2005; 71 FR 5780, Feb. 3, 2006]

APPENDIX G TO PART 225—CAPITAL ADEQUACY GUIDELINES FOR BANK HOLDING COMPANIES: INTERNAL-RATINGS-BASED AND ADVANCED MEASUREMENT APPROACHES

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