# Basics for Bank Directors

FEDERAL RESERVE BANK of KANSAS CITY Division of Supervision and Risk Management

The 5th edition has been modestly updated to reflect changes primarily related to the accounting terminology used to describe the allowance for loan and lease losses (ALLL) framework used by banks to develop internal reserve adequacy parameters and guidance. These changes, although important, are technical in nature and do not in any way alter the scope of this book.

This book is available in electronic form at www.BankDirectorsDesktop.org

Welcome to the fifth edition of Basics for Bank Directors. Recognizing the key role directors play in banks, the Federal Reserve Bank of Kansas City has offered this book for more than a decade.

The primary goal of the book is to provide bank directors with basic information that defines their role and helps them evaluate their institutions' operations. The impetus to do this came out of the 1980s, when our financial system experienced severe banking problems and numerous bank closures. One of the lessons learned from that period was that people are often asked to serve as directors without the benefit of any training, either on their duties and responsibilities as directors, or on bank operations. That lack of training can result in either uninformed directors or discouragement from even becoming a director.

It is our experience that informed directors are more engaged and, in turn, have a positive impact on the health of a bank. Where board oversight is strong, problems are fewer and less severe. Those problems that do exist are addressed and corrected in a timely fashion. Where oversight is weak, problems are more numerous and severe. They may recur or remain uncorrected, possibly resulting in bank failure. Accordingly, this book shares information gained from that experience, which we believe will help directors meet their fiduciary responsibilities.

The Federal Reserve System also offers an online companion course to this book, accessible at no charge, at www.BankDirectors Desktop.org. We hope that Basics and the Bank Director's Desktop are useful resources for you.

THOMAS M. HOENIG

President

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# Acknowledgments

Forest E. Myers, policy economist of the Federal Reserve Bank of Kansas City for over 30 years, originally authored this book in 1993. Forest retired at the end of 2008, but his legacy lives on in Basics for Bank Directors and the online companion course to this book.

We are confident that Forest's work has made better directors of those availing themselves of these two significant resources. For that, we are heartily grateful for his efforts, as well as those of the many people who contributed to this book over the years.

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# Introduction

In today's world, commercial banks are fighting hard to maintain their historic role as leaders of the financial community. They are faced with increasing pressures from competitive institutions which are eager to offer services that have heretofore been restricted to banks; ... A bank director, particularly a non-management director, has a greater opportunity and a greater responsibility today than at any period in recent history ...!

These words were written in 1974. Yet, they have a familiar ring and could just as easily describe challenges facing banks and bank leadership in the 21st century. If anything, events of the last three decades serve only to reinforce this earlier observation: Banks must work harder to meet shareholder profit expectations, and more is expected from bank directors.

Increased competition from other financial service providers, deregulation, financial and technological innovations, and economic swings have made it increasingly difficult for bank management to steer a consistently profitable course. As a result, many banks have merged or been acquired by others. Today, slightly more than 7,400 commercial banks operate in the United States, compared to nearly 14,500 in the mid-1980s.

Additionally, legal changes and court actions have placed greater responsibility and accountability on bank directors. For example, the Financial Institutions Reform, Recovery and Enforcement Act of 1989 (FIRREA) strengthened enforcement authority and increased penalties the federal regulatory agencies can assess against directors and others for problems at banks. The Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA) required board review of more matters, and placed greater responsibility on outside directors of larger banking organizations.

Subsequent court decisions have clarified what constitutes director negligence, making it easier for the Federal Deposit Insurance Corporation (FDIC) to pursue claims in some states against directors of failed institutions. The Sarbanes-Oxley Act of 2002, stock and other

exchange listing requirements, and bank regulatory guidance stressed greater independence of outside directors and generally raised expectations regarding their oversight of bank management.

As the future unfolds, outside directors will play an increasingly important role in guiding their banks and serving as unbiased judges of their operational performance. Outside bank directors differ from "inside" or "management" directors in that they do not also serve as officers and management officials of the bank and own less than 5 percent of its stock.

Fulfilling this role will not be easy. Studies of failed banks reveal that many were supervised by directors who received insufficient or untimely information or were inattentive to the bank's affairs. This impaired their ability to judge bank operations and to identify and correct problems.

Thus, for outside directors to meet the demands placed upon them, they must be knowledgeable, well-informed, and active in overseeing the management of their banks. In light of these challenges, you might ask, "Why serve as an outside bank director?" The answer is that banks play an important role in the economic lives of their communities. As a director, you can have influence over and help shape your local economy.

Further, many consider service as a bank director to be an honor. You may be asked to serve for a variety of reasons, including your business expertise or prominence in your community. Whatever the reason, your invitation to serve is testimony to the valuable contribution the bank's shareholders believe you can provide to its management.

While a director's job is important and carries responsibility, it is not as daunting as it first appears. Basic management experience and skills necessary to succeed in other endeavors are equally applicable to banks. Thus, the knowledge and experience you have developed in your profession can be effectively used in your role as a director. Add to this an inquisitive attitude and willingness to commit time and energy to bank matters, and you have many of the attributes of an effective bank director.

The only things missing may be a basic knowledge of banking and what to consider in overseeing a bank. Many approaches could be

followed to impart this knowledge. The approach used here employs many of the methods, techniques, and reports used by examiners to evaluate bank condition and compliance.

This is not to suggest that directors should behave as bank examiners. Rather, you, like the examiner, must be able to draw conclusions about your bank's condition in a relatively short time without intimate knowledge of its daily operations. An examiner-like approach lets you do this by focusing attention on key bank operations and giving you an organized way to understand bank affairs.

Before we move into the main section of the book, we want to leave you with this thought on the need to learn basics. No less than the legendary Green Bay Packers football coach Vince Lombardi recognized the importance of teaching basics to his players. Even after winning championships and being surrounded by future Hall of Fame players, Lombardi had a tradition of beginning every preseason training camp the same way: standing before his players, holding a football in one hand and saying, "Gentlemen, this is a football." He assumed that his players were a blank slate at the beginning of each season. With that in mind, we begin in Chapter 1 with the very basic discussion, "Ladies and gentlemen, this is a bank."

#### **Endnotes**

<sup>&</sup>lt;sup>1</sup>Theodore Brown, "The Director and the Banking System," The Bank Director, ed. Richard B. Johnson, (Dallas: SMU Press, 1974), p. 3.

<sup>&</sup>lt;sup>2</sup>David Maraniss, When Pride Still Mattered: A Life of Vince Lombardi, Simon & Schuster, New York, New York, 1999, page 274.

# LADIES AND GENTLEMEN, THIS IS A BANK

hat is a bank? This may seem like an elementary question, but it is important to start at the beginning of what being a bank director is all about and where you fit in.

The word "bank" evokes different mental pictures for different individuals. Some will think of the quintessential bank building with the big stone columns and a large vault. Others will envision a balance sheet showing a bank's assets, liabilities, and capital. Still others will fall back on the regulatory definition of a bank, which is, generally, an organization that is chartered by either a state or the federal government for the purpose of accepting deposits. Banks may also make loans and invest in securities.

For your purposes, however, a bank is a financial intermediary. That means the bank acts as a financial go-between. People who save money put it on deposit in a bank. People who need money ask for loans. A bank facilitates this by lending out a portion of the deposits to qualified borrowers, hopefully for a higher interest rate than is paid on the deposits. The bank may also invest some of those deposits in U.S. government securities, municipal bonds, or other investments. This use of deposits, by the way, distinguishes banks from other industries that rely solely on their capital to support their activities.

This intermediary role is what makes a bank so important to its community. Through loans and investments, a bank fosters economic development, job creation, and a system to easily transfer money between individuals or businesses. A bank is, in effect, a community's economic engine.

However, that engine generates risk. Risk is generally defined as the potential that events—planned or unanticipated—may have an adverse impact on capital and earnings. The Federal Reserve has

identified six categories of risk:

- Credit risk arises from the potential that a borrower will fail to repay the bank as agreed.
- Market risk is the risk to a bank's condition resulting from adverse movements in market rates or prices, such as interest rates, foreign exchange rates, or equity prices.
- Liquidity risk is the potential that a bank may be unable to meet its obligations as they come due, because of an inability to liquidate assets or obtain other funding.
- 4. Operational risk emanates from the potential that inadequate information systems, operational problems, breaches in internal controls, fraud, or unforeseen catastrophes will disrupt bank operations or otherwise result in unexpected losses.
- Legal risk comes from the potential for operational disruption or other negative effects from unenforceable contracts, lawsuits, adverse judgments, or noncompliance with laws and regulations. Compliance risk falls under the legal risk umbrella.
- Reputational risk is the potential for negative publicity from a bank's business practices to cause a decline in the customer base, costly litigation, or revenue reductions.

#### Risk Management

Taking and managing risks are fundamental to the business of banking. Accordingly, the Federal Reserve emphasizes the importance of sound risk management processes and strong internal controls when evaluating the activities of the institutions it supervises.

Properly managing risks is critical to ensuring compliance with banking laws and regulations and meeting the needs of the bank's customers. Risk management has become even more important as new technologies, product innovation, and the size and speed of financial transactions have changed the nature of financial services markets.

This is where you come in as a director. In addition to being a financial intermediary, a bank is also a corporate entity governed

by a board of directors elected by the shareholders to represent and protect their interests. Thus, directors are an important part of a bank's governance system, possessing ultimate responsibility for the conduct of the bank's affairs.

A director's major responsibility regarding risk is to provide a management structure that adequately identifies, measures, controls, and monitors risk. Examiners give significant weight to the quality of risk management practices and internal controls when evaluating management and the overall financial condition of banks. Failure to establish a risk management structure is considered unsafe and unsound conduct. Whenever you see or hear the term "unsafe and unsound" from a bank examiner, the issue is *very* serious and will require some immediate corrective action or response from the board of directors and management. That action or response may be prescribed in something called an enforcement action, which is discussed in Chapter 5.

As a director, you won't be involved in the day-to-day management of the bank, but you will be involved through the strategic plan you adopt for the bank. This will determine the bank's direction, how it will conduct its business, and address acceptable products the bank may offer. The policies you adopt will set the risk limits for those products.

Your involvement will also come from your participation in the board of directors meetings, reading the various reports that are reviewed at the meetings, supervising bank management, and knowing the bank's financial condition. In short, you and your management team will identify, measure, control, and monitor your bank's risk to achieve profitability.

This is where you fit in, but we have just covered a general description of your duties and responsibilities. A more detailed discussion occurs in the Management section of Chapter 3.

Before we move on, here is a word of caution. Directors are typically asked to serve on a board by the bank's chief executive officer (CEO). That often engenders some allegiance to that CEO; however, it is important to remember that management works for the board of directors, not the other way around. It is equally important for both the board and management to understand this concept.

#### REGULATORY FRAMEWORK

ow that you know what a bank is and the associated risks, this chapter will describe the regulatory framework in which banks are created and supervised. A director's major

duties regarding regulators include:

- knowing your bank's regulator;
- reviewing reports and other correspondence from the regulator;
- formulating corrective action of any issues identified in those regulatory reports and correspondence;
- assigning responsibility to appropriate bank management or staff for implementing corrective action; and
- monitoring and managing the progress of corrective action to its timely completion.

Your bank's regulator is determined by the charter of your bank. The United States employs what is called a dual banking system in which banks can be chartered by either one of the 50 states or the federal government. See Reference 2.1 below depicting the dual banking system.

Each state has its own department that charters banks, called something like the Financial Institutions Division, Department of Banking, the Banking Commission, or other similar name. Banks chartered by the states are called state banks, although the word "state" is not required to be in the bank name.

State banks have a choice on whether to become a member of the Federal Reserve System (Federal Reserve). If they choose to join the Federal Reserve, these state member banks are supervised by their state banking agency and the Federal Reserve, with the Federal Reserve being the primary federal regulator. If they elect not to join the Federal Reserve, these state nonmember banks are supervised by their state banking agency and the FDIC, with the FDIC being the primary federal regulator. State and federal regulators coordinate their examination efforts, either rotating examination responsibilities or conducting joint examinations.

The federal banking authority that charters banks is the Office of the Comptroller of the Currency (OCC), a bureau of the United States Department of Treasury. These national banks must have the word "national," or the letters "N.A.," meaning national association, in their names. For example, you will now know that First National Bank of Anywhere, or XYZ Bank, N.A., are chartered and supervised by the OCC as the primary federal regulator.

Banks are often owned and controlled by other corporations called bank holding companies (BHCs). BHCs were originally formed to avoid location and product restrictions on banks. Later, they provided bank owners with certain tax advantages. BHCs are an important feature of the nation's banking system, controlling the vast majority of U.S. banking assets.

The Federal Reserve exercises consolidated supervisory oversight of BHCs, meaning that it is the "umbrella supervisor" for these companies, regardless of which agency regulates the subsidiary banks. Functional regulators, however, retain supervisory responsibility for the portions of BHCs that fall within their jurisdiction. For example, the OCC supervises national bank subsidiaries, FDIC and state banking agencies supervise state nonmember bank subsidiaries, state insurance commissioners supervise insurance subsidiaries, and the Securities and Exchange Commission supervises broker/dealer subsidiaries.

## Purpose of Regulation

The laws and regulations that govern banking have evolved over the years and accomplish several broad purposes. These purposes include maintaining or promoting a banking system that is:

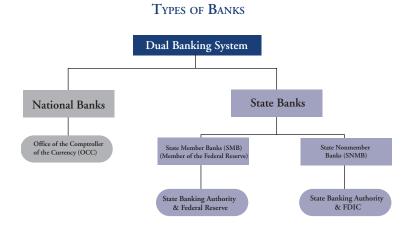
- safe, sound, and stable;
- efficient and competitive; and
- "even-handed" or "fair."<sup>3</sup>

#### A safe, sound, and stable banking system

The promotion of a safe, sound, and stable banking system is

#### Reference 2.1

#### THE DUAL BANKING SYSTEM AND ITS REGULATORS



one of the most basic reasons for bank supervision and regulation. A stable banking system provides depositors with a secure place to keep their funds. It provides businesses and individuals with a dependable framework for conducting monetary transactions. Finally, it provides the Federal Reserve with a reliable channel through which to conduct monetary policy.

Deposit insurance, access to the Federal Reserve's discount window and payment system guarantees, and the implicit certification of soundness that counterparties believe accompanies federal supervision and regulation are all important tools for achieving banking stability. Together, they are a significant part of a federal safety net for banking, insuring deposits, and giving solvent banks access to liquidity when the need arises.

To help reduce risk to the federal safety net, the government uses a system of bank regulation and supervision. Regulations place limits or prohibit practices that experience indicates may cause banking problems, including:

- inadequate or imprudent loan policies and procedures, poor credit analysis, weak loan administration, and poor loan documentation;
- inadequate supervision by the board of directors;
- heavy reliance on volatile funding sources;
- failure to establish an adequate loan loss reserve;
- insider abuse and fraud; and
- the presence of a dominant figure on the board of directors, usually the CEO.

Through laws, regulations, and on-site examinations, regulators have the supervisory tools to address such issues. Supervision also includes off-site monitoring of a bank's financial trends and other actions taken by bank management that could affect the bank's condition.

#### An efficient and competitive banking system

Another important purpose of bank regulation is the maintenance of a competitive banking system. A competitive banking system provides customers with the lowest priced, most efficiently produced goods and services.

A number of laws and regulations influence banking competition. Chartering and branching laws and regulations establish minimum standards for opening new banks and bank branch offices and thereby influence banking competition. Additionally, other banking statutes prohibit merger and acquisition transactions that create undue banking concentrations in any part of the country. Banking law (the Management Interlocks Act) also prohibits management interlocks among unaffiliated institutions located in the same community in order to reduce possible anti-competitive behavior.

#### An even-handed or fair banking system

Another important goal of regulation is consumer protection. Some laws, such as the Truth in Lending Act and the Truth in Savings Act, require banks to disclose information that helps consumers evaluate product options open to them. The Equal Credit Opportunity Act requires banks to be even-handed in their customer dealings, while the Community Reinvestment Act (CRA) encourages banks to meet the community's credit needs. Other laws, such as the Fair Credit Reporting Act, Fair Debt Collection Practices Act, GLBA, and Fair and Accurate Credit Transaction Act, provide consumer safeguards in the extension, collection, and reporting of consumer credit. They set out administrative, technical, and physical safeguards for customer records and information, including sharing of customer information.

#### Bank Examinations

Each regulator employs its own group of bank examiners to examine the banks it charters or for which it is otherwise responsible. Sometimes you will hear the words "regulate" or "supervise" used interchangeably with "examine."

Bank examinations are an important supervisory tool. The agencies use examinations to periodically assess the overall condition of an institution, its risk exposures, and its compliance with laws and regulations. Depending upon circumstances, a bank is examined every 12 to 18 months.<sup>4</sup>

Over the years, the agencies have worked to make the examination process more effective to ease examination burdens on banks, make the examinations more consistent, and improve communication of examination findings. They have adapted the examination process in order to respond to rapid changes occurring at financial institutions.

For example, there was a time when examiners arrived unannounced at a bank to determine its financial condition and regulatory compliance by laboriously going through its books and records. Today, examinations are generally announced in advance, and the process used to determine an institution's financial health focuses on the institution's risk exposures and its risk control systems in addition to checking on its financial condition. Bank examiners still arrive together, but in smaller numbers, and much of the work can be done away from the bank itself, or off-site.

With the rapid change in financial products and activities

conducted by institutions, risk management systems are critical to their safe and sound operation. As a result, internal control systems receive greater examiner attention. This increased emphasis on controls provides the supervisory agencies with a better picture of an institution's ability to effectively deal with future events and successfully enter new activities.

The federal and state banking agencies customize their examinations to suit the size and complexity of an institution and to concentrate examination resources on activities that may pose significant risk. This is called risk-based supervision.

Off-site, prior to an examination, examiners determine the institution's significant activities and the types and amount of risk exposure these activities pose. Once this preliminary work is completed, the information is used to develop a strategy for directing examination resources to significant, high-risk areas of the bank's operations.

During this risk assessment process, examiners review previous examination reports and current financial data. They might interview bank staff via telephone or make a pre-examination visit to the bank.

At this time, examiners discuss with the bank's senior management matters such as:

- the bank's economic and competitive environment;
- recent or contemplated changes in personnel, procedures, operations, and organization;
- internal audit, monitoring, and compliance programs; and
- management's own assessment of the bank's risk areas.

#### Additionally, they review:

- internal policies and procedures;
- management reports;
- internal and external audit reports;
- audit work papers;
- strategic plans and budgets;
- minutes of board of directors and committee meetings; and
- · other materials necessary to gain insights regarding the

extent and reliability of the bank's internal risk management systems.

During this process, examiners form an initial assessment of the bank's management. They may also ask for basic information on individual loans in the bank's portfolio, e.g., original loan amount, current loan balance, borrower name, payment history, etc.

Later, the examiners review capital adequacy, earnings, liquidity, and market risk and formulate questions to be asked while actually at the bank, or on-site. They determine a sample of loans to be reviewed. The sample often includes:

- all loan relationships, including loan commitments, above a certain dollar size (the loan cut);
- all loans past due 30 days or more, or on nonaccrual status;
- all previously classified loans;
- all loans to insiders;
- all loans on the bank's watch or problem loan list; and
- a random sample of loans from the remainder of the loan portfolio with balances below the loan cut.

On-site, examiners review the riskier areas identified in their preliminary work. They also continue their assessment of the bank's risk management systems and its management team.

When on-site work is completed, examiners hold an exit meeting with senior management to discuss preliminary examination results. Matters discussed at this meeting may vary, but typically include the:

- scope of the examination;
- condition of the bank;
- · quality of management oversight and processes; and
- address matters requiring the Board's and mangement's attention.

As part of the bank's management team, directors may want to attend the exit meeting, because it provides an advance look at any strengths or weaknesses identified by the examiners. In some instances, examiners may ask directors to attend, especially when significant problems have been discovered, although a separate meeting with the board of directors is usually scheduled in light of such issues, too.

Subsequent to on-site work, examiners prepare their report of examination (ROE), which goes through several layers of review or what examiners refer to internally as the vetting process. The completed report is forwarded to the institution's board of directors and senior management.

The ROE provides a rating for the institution's capital, asset quality, management, earnings, liquidity, and sensitivity to market risk. These are collectively referred to as the CAMELS ratings. Examiners also assign an overall, or composite, rating.

Because the ROE represents a third-party assessment of your institution's condition, it is a valuable tool for you as you oversee the many aspects of your bank. The ROE will contain a letter to the board of directors, giving the examiner's overall assessment of the bank's condition and summarizing significant matters found during the examination.

Those significant matters will be prominently identified in the body of the ROE. You might see headings such as "Matters Requiring Immediate Attention" or "Matters Requiring Attention." You might also see comments saying that you are "required" or "directed" to do something, or "must" do something, in response to an ROE item. You will want to pay particular attention to these items and the violations of law.

It is important that those significant issues are resolved in a timely manner, which will require assigning their responsibility to a specific person in the bank and reporting their status periodically to the board. One of the biggest red flags to wave at bank examiners is lack of corrective action on the substantive items noted in your last ROE, as repeated issues may be indicative of an uncooperative or unresponsive management. The same diligence should be shown in responding to internal and external audits.

#### **Endnotes**

<sup>3</sup>Kenneth R. Spong, *Banking Regulation: Its Purposes, Implementation, and Effects*, Fifth Edition (Kansas City: Federal Reserve Bank of Kansas City, 2000), pp. 5-10.

<sup>4</sup>State guidelines on examination frequency vary. Section 10(d) of the Federal Deposit Insurance Act, codified as 12 USC 1820d and Federal Reserve Regulation H, 12 CFR 208.64, requires that every bank and savings and loan receive a "full-scope," on-site examination every 12 months. However, this may be extended to 18 months if an institution:

- (1) has total assets of less than \$500 million;
- (2) is well-capitalized as defined in 12 USC 18310;
- (3) is well-managed;
- (4) is composite rated 1 or 2 at its most recent examination;
- (5) is not subject to a formal enforcement proceeding or order; and
- (6) has not undergone a change in control during the previous 12 months.

### BANK SAFETY AND SOUNDNESS

he term "safety and soundness" refers to the health, or condition, of banks individually and as a group, or systemically. To assess a bank's safety and soundness, you must consider compliance and operational matters as well as the bank's financial condition. This requires that you establish policies to set your bank's risk limits, govern its operations, and safeguard its assets. It also requires that you periodically check bank performance to ensure policies are being followed and are achieving desired results.

The information to do this check-up can be obtained from internal reviews, directors' audits, external audits, examination reports, operating budgets, and the bank's financial reports. These resources can be used to judge the effectiveness of internal controls, identify weaknesses where controls need to be added or strengthened, and judge the bank's financial soundness.

As we mentioned in the Introduction section, we will use bank examiner methods and reports in imparting a basic way a director may evaluate a bank's condition and compliance. This involves the use of the Uniform Financial Institutions Rating System that the regulatory agencies utilize to evaluate a bank's condition in six areas:

- Capital,
- Asset quality,
- Management,
- Earnings,
- Liquidity, and
- **S**ensitivity to market risk.

The first letter of each of these areas is where the term, or acronym, CAMELS ratings comes from. In addition to these components, the regulators also rate electronic data processing, trust, compliance and community reinvestment.

Each of these component areas is viewed separately and assigned a component rating. They are considered together to arrive at an overall, or composite, rating. Ratings are on a scale of one to five, with one being best. Composite and component ratings of three or worse are considered less than satisfactory. Additionally, as ratings go from one to five, the level of supervisory concern increases, the ability of management to correct problems is questioned, the presence of regulators becomes more pronounced, and the likelihood of failure increases.

The following sections of this chapter discuss the importance of each CAMELS component, review topics that often are considered in evaluating them, and offer ideas on how each component can be evaluated. For more explanation of the CAMELS rating system, please see the Federal Reserve's Commercial Bank Examination Manual, section A.5020.1. You may find it by going to <a href="https://www.BankDirectorsDesktop.org">www.BankDirectorsDesktop.org</a> and clicking on Resources for Bank Directors. This manual may be a good resource for other examination-related topics.

### **C**APITAL

As a bank director, you are responsible for making sure your bank's capital is adequate for safe and sound operation. Fulfilling this responsibility entails evaluating and monitoring your bank's capital position and planning for its capital needs.

This section discusses capital adequacy. It describes regulatory guidelines for bank capital, addresses how capital is measured, discusses the need for bank capital planning, and offers ways to judge a bank's capital position.

Bank capital serves the same purpose as capital in any other business: It supports the business' operations. In the case of banks, though, it is the cushion that protects a bank against unanticipated losses and asset declines that could otherwise cause it to fail. Capital also:

- provides protection to uninsured depositors and debt holders in the event of liquidation;
- sustains it through poor economic times; and
- represents the shareholders' investment and appreciation in that investment from successful operations.

Different industries have varying needs for capital. Relative to nonfinancial businesses, banks and other financial service providers operate with small amounts of capital.

Many businesses with little capital support would find it difficult to borrow funds to support their operations. Yet, banks are able to borrow funds due to the protection afforded bank depositors by federal deposit insurance. This protection, in effect, makes the federal government a cosigner on the insured portion of bank deposit liabilities, enabling banks to operate with far less capital than other firms do.

Although federal deposit insurance protects depositors, a bank's thin capital provides little room for error. A sudden, unexpected interest rate change, losses on loans and investments, lawsuits, or embezzlement may leave a bank with inadequate capital protection and, in some instances, push it into insolvency. Because of this, the adequacy of a bank's capital position is an important concern for both bankers and bank regulators.

### Bank Capital and its Regulation

Regulatory guidelines define capital and spell out the minimum acceptable capital levels for banks. The purpose of these guidelines is to protect depositors and the federal deposit insurance fund. The three federal banking agencies use a risk-based approach to gauge bank capital. Under this approach, the agencies define what is included in bank capital and establish minimum capital levels based on the inherent risk in a bank's assets.

Regulatory guidelines are also tied to global capital standards for banks. The global capital standards are established by the Basel Committee on Banking Supervision, so named because it is based in Basel, Switzerland. The committee provides a forum for international cooperation on bank supervision matters. Its members include the central banks and major bank regulators from the United States and many European, Asian, African, and South American countries.

The basis for the current risk-based capital guidelines approach is called Basel I, which was a 1988 accord that focused on credit risk. Currently, implementation of the Basel II Advanced Approaches capital framework is underway. Issued in 2004,

Basel II improves upon Basel I, introducing operational risk into the capital guidelines along with a three-pillar concept that includes minimum capital requirements, supervisory review, and market discipline. Basel II, however, is only mandatory for large, internationally active banks<sup>5</sup> (core banks) and optional for certain other large banking organizations.

Coincident with Basel II implementation, the agencies proposed alternative capital guidelines for noncore banks. The Standardized Approach for Determining Required Minimum Capital would modify existing capital guidelines to make them more risk-sensitive. As proposed, noncore organizations could opt to be subject to the new guidelines or remain subject to current risk-based capital guidelines. At this writing, the Standardized Approach has not been finalized, and by necessity, the remaining discussion focuses on Basel I regulations under which noncore banks currently operate.

The risk-based capital regulations divide capital into core and supplemental capital. Core, or Tier 1, capital is similar to what is normally thought of as capital in other businesses. It consists of:

- common and certain preferred stock;
- surplus; and
- undivided profits.

Supplemental, or Tier 2, capital consists, within certain specified limits, of such things as:

- the allowance for loan and lease losses (ALLL);
- hybrid capital instruments; and
- subordinated debt.

These supplemental items are often forms of debt that are subordinate to claims of depositors and the FDIC. As such, they provide depositor protection and are included in bank capital.

The sum of Tier 1 and Tier 2 capital, less certain deductions, represents a bank's total capital. In the capital regulations, Tier 1 capital must constitute at least 50 percent of a bank's total capital. Thus, the use of Tier 2 capital is limited by the "hard" equity in a bank's capital structure. Reference 3.1 provides a summary of the components that make up core and supplemental capital and indicates limitations on their use. Specific criteria for items in the

# REFERENCE 3.1

#### COMPONENTS OF CAPITAL

Components	Minimum requirements
CORE CAPITAL (Tier 1)  • Common stockholders' equity	Tier 1 must represent at least 50% of qualifying total capital, and equal or
Qualifying, noncumulative, perpetual, preferred stock	exceed 4 percent of risk-weighted assets  No limit.
Minority interest in equity accounts of consolidated subsidiaries	No limit; banks should avoid undue reliance on preferred stock in Tier 1.
Less: goodwill and other intangible assets.	Banks should avoid using minority interests to introduce elements not otherwise qualified for Tier 1 capital.
SUPPLEMENTARY CAPITAL (Tier 2)	Total of Tier 2 is limited to 100 percent of Tier 1.
• ALLL (Allowance for Loan and Lease Losses)	ALLL limited to 1.25 percent of risk-weighted assets,
Perpetual preferred stock and related surplus	Subordinated debt, intermediate-term preferred stock, and other restricted
Hybrid capital instruments and mandatory convertible debt securities	core capital elements are limited to 50 percent of Tier 1.
Term subordinated debt and intermediate-term preferred stock, including related surplus	
Revaluation reserves (equity and building)	
DEDUCTIONS (from sum of Tier 1 and Tier 2) Investments in unconsolidated subsidiaries	Any assets deducted from capital are not included in risk-weighted assets in computing the risk-based capital ratio.
Reciprocal holdings of banking organizations' capital securities	
Other deductions (such as other subsidiaries or joint ventures) as determined by supervisory authority	
TOTAL CAPITAL (Tier 1 + Tier 2 - Deductions)	Must equal or exceed 8 percent of risk-weighted assets

reference can be found in the capital regulations published by the federal banking agencies.

As part of their capital adequacy assessment, the regulatory agencies convert a bank's assets, including off-balance sheet items, to risk-equivalent assets. Off-balance sheet items are assets that, under accounting rules, are not reflected on a bank's balance sheet but can, nonetheless, expose the bank to financial losses for which capital must be maintained. Examples of off-balance sheet items include such things as standby letters of credit, unfunded loan commitments, interest rate swaps, and commercial letters of credit.

The purpose of this risk-equivalency conversion is to quantify the relative risk, primarily credit risk, in these assets and to determine the minimum capital necessary to compensate for this risk. For example, assets that pose little risk, such as cash held at the bank's offices and U.S. government securities, are weighted zero, meaning that no capital support is required for these assets. Assets that pose greater risk are weighted at 20, 50, or 100 percent of their dollar value, indicating the level of capital support they require.

Reference 3.2 presents a sample calculation of risk-weighted assets and shows the effect of risk weighting. Except for banks with large "off-balance sheet" asset positions, risk weighting will nearly always lower total assets requiring capital support. However, even if a bank held nothing but cash and U.S. securities, it would still be required to maintain capital support for these assets. The reason is that banks face more than credit risk (for example, liquidity, market, and operational risks), and these other risks require that capital be kept at some minimum level to protect the bank and its depositors.

The federal banking agencies use several ratio measures to assess the adequacy of a bank's capital. For a bank to be adequately capitalized, it must have total (Tier 1 + Tier 2) capital-to-risk-weighted assets of at least 8 percent. Additionally, it must have at least a 4 percent Tier 1 capital-to-risk-weighted assets ratio and a 4 percent Tier 1 capital-to-average total assets ratio, also known as the "leverage ratio." The agencies caution, however, that banks should keep their capital above regulatory minimums, especially if they face increased risks or contemplate significant asset growth or expansion.

#### Reference 3.2

#### SAMPLE RISK-WEIGHTED ASSET CALCULATION

Bank Asset	Asset Amount	Risk weight	Risk-weighted asset
Cash	\$5,000	.00	\$0
Balances at domestic banks	5,000	.20	1,000
Loans secured by first lien on 1-to-4 family residential property	5,000	.50	2,500
Loans to private corporations	65,000	1.00	65,000
Total	\$80,000		\$68,500

Capital adequacy takes on an added dimension with the establishment of a formal system of prompt corrective action under FDICIA. This system uses bank capital levels to trigger supervisory actions designed to quickly correct banking problems. Reference 3.3 presents the capital adequacy zones used by the federal banking agencies to trigger these actions at the bank level. The ratios and the definition of "adequate capital" (refer to line two in Reference 3.3) are the same as those used by the agencies in their capital adequacy guidelines.

Under prompt corrective action, banks that are inadequately capitalized face a variety of mandatory and discretionary supervisory actions. For example, "undercapitalized banks" must restrict asset growth, obtain prior approval for business expansion, and have an approved plan to restore capital. "Critically undercapitalized banks" must be placed in receivership or conservatorship within 90 days unless some other action would result in lower long-term costs to the deposit insurance fund.

In addition to mandatory actions, the agencies have discretion to require inadequately capitalized banks to, among other things, limit dividend payments, limit deposit rates paid, replace senior executive officers, and elect new directors.

#### REFERENCE 3.3

#### CAPITAL ADEQUACY GUIDELINES

Capital adequacy zone	Total risk-based ratio	Tier 1 risk- based ratio	Leverage Ratio
Well-capitalized <sup>6</sup>	10% or more and	6% or more and	5% or more
Adequately capitalized	8% or more <b>and</b>	4% or more and	4% or more <sup>7</sup>
Undercapitalized	Less than 8% or	Less than 4% or	Less than 4%8
Significantly undercapitalized	Less than 6% or	Less than 3% or	Less than 3%
Critically undercapitalized	_	_	Less than 2%9

# Planning for the Bank's Capital Needs

Fulfilling your responsibility to maintain adequate capital encompasses more than making sure the bank meets regulatory guidelines. It requires considering a wide range of matters that may call on the bank's capital resources. Additionally, it requires developing plans for building capital resources to meet these calls.

In order to assess your bank's capital needs, you need to know its current position and the adequacy of that position in protecting the bank, now and in the future. Accordingly, you need to be familiar with the level and trend of your bank's financial condition. Familiarity with the bank's plans for the future and how they may affect capital adequacy is also necessary.

For example, if your bank has a high level of problem loans and this level is growing over time, capital will need to be bolstered to support greater possible future charge-offs. If your bank plans to make significant acquisitions, to rapidly increase assets, to start new business activities, or to make significant additions or changes to facilities, added capital may be needed to support these efforts. If your bank's strategy is to emphasize lending or to specialize in lending to a few industries, additional capital will be required to compensate for the concentration of risk these strategies may develop.

Besides determining capital needs, the directors and management must develop plans to raise capital as needed. These plans may use a variety of strategies to keep the bank's capital position strong. For example, one strategy may call for strengthening capital by tapping external sources. Another may call for building capital internally through earnings retention or using a combination of external and internal capital sources. Alternatively, plans may call for lessening the need for capital by selling assets or by replacing higher-risk assets with lower-risk assets.

#### External sources of capital

Whether a bank can raise capital from external sources depends upon a number of factors. Two of the most important of these are the bank's financial condition and size. Financially sound banks or banks that are subsidiaries of strong bank holding companies generally can find purchasers for their equity and debt capital issues. On the other hand, banks or companies that are in poor or deteriorating condition generally may find few takers for their stock issues and debt instruments. Capital can be difficult to obtain during economic downturns, too, regardless of a bank's condition.

Size can be another important factor in funding capital needs from external sources. For example, larger banks and companies may have better access to capital markets, giving them more options for raising capital. Smaller institutions, on the other hand, may have fewer options, requiring them to rely largely on current shareholders for capital injections.

#### Internal sources of capital

Another method for building capital is through earnings retention. Depending upon your bank's circumstances, this may require making some hard choices.

For example, bank dividends may have to be reduced or eliminated until capital is restored to sound levels, even though this may cause possible financial hardship for shareholders who rely on dividends as an income source. If your bank's earnings power is low, it may mean reducing asset growth, abandoning planned acquisitions, or scaling back branch additions and other facility improvements.

#### Selling assets and reducing credit risk

An alternative to raising capital is to reduce the need for capital by selling assets or by redistributing asset holdings to those requiring less capital support. In following this strategy, your bank may be able to sell assets to others, thereby reducing the asset base on which capital must be held. Additionally, your bank might redistribute its asset portfolio, moving to lower-risk-weighted assets (for example, reducing loans in favor of U.S. government securities), which require less capital.

Some banking analysts view these approaches as a less-desirable way to restore a bank's capital position. They argue that asset sales, especially loans, may result in the loss of good customers to those who purchase the loans. In addition, asset sales may leave a bank with poorer quality and less-liquid assets because purchasers may only be interested in a bank's highest-quality, most readily marketable assets. Resulting portfolio shifts may lower earnings as the bank moves away from higher-risk, higher-yielding assets (for example, loans) to lower-risk, lower-yielding assets (such as U.S. government securities).

In summary, evaluating and planning for a bank's capital needs is a major responsibility for directors. To carry out this responsibility, directors must monitor their bank's capital position on an ongoing basis and identify factors that may influence the adequacy of this position over time. It also requires that the directorate work with management to develop strategies to meet identified needs.

# Monitoring Capital Adequacy

A useful tool for evaluating your bank's capital position, as well as other areas of performance, is financial ratio analysis. A principal benefit of using ratios to analyze performance is that they provide information that dollar values may not. For example, if during the course of a board meeting you were told that your bank's equity capital doubled over an operating period, you may conclude that the bank has strengthened its capital position. However, if over the same period the bank's assets tripled, you would conclude that capital support actually declined. Financial ratios facilitate making these comparisons.

Current-period values for financial ratios can be made more meaningful if they are placed in context. For example, comparisons with historical ratio values place your bank's performance in context with its past operation. With this information, you can see changes in the bank's capital position, either positive or negative, and evaluate if your bank's capital will be sufficient for safe and sound operation.

Comparison with budget and peer information can be helpful. The Uniform Bank Performance Report (UBPR) is a valuable source of peer information. This report shows financial information for your bank and a peer group of comparable banks. The report is generated from reports of condition (balance sheet) and income, also known as call reports, submitted by all FDIC-insured banks at each calendar quarter end. The information is fed into a database located at the Federal Financial Institutions Examination Council (FFIEC), an interagency bank supervision body that promotes consistency among the federal and state banking regulators. UBPRs may be obtained from the FFIEC website. See Chapter 6 for Other Resources for Bank Directors, or select Resources for Bank Directors at www. BankDirectorsDesktop.org.

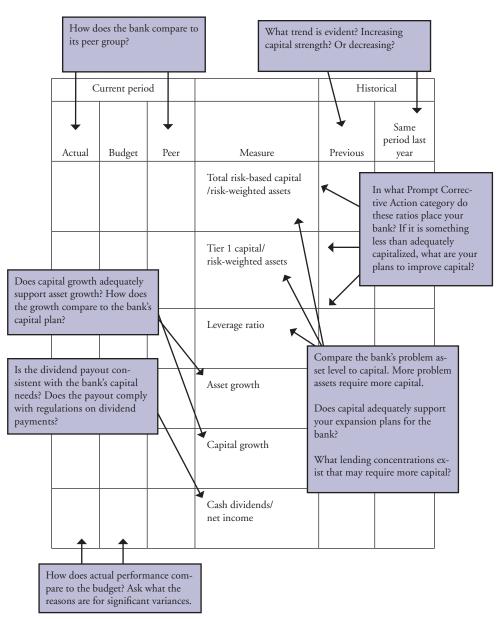
The comparisons allowed by the UBPR can help answer such questions as "Is the bank's capital position where we planned it to be?" or "Is our capital position on par with similarly situated banks?"

Reference 3.4 presents ratios commonly used to monitor bank capital. The first three are used to assess compliance with capital adequacy guidelines. The last three ratios take into account factors that may temper your bank's capital needs. In this regard, ratios four and five provide insights regarding asset and capital growth at your bank. The last ratio gives an indication of a bank's ability to fund asset growth internally through earnings retention.

In conclusion, bank capital serves many of the same purposes as capital in any other business. However, because bank capital protects depositors and reduces the loss exposure of the federal safety net for banks, bank capital levels are subject to regulatory guidelines. It is an important director responsibility to make sure that cushion remains strong. This requires monitoring the bank's capital position closely, anticipating capital needs, and planning ways to meet those needs.

# REFERENCE 3.4

#### RATIO ANALYSIS— CAPITAL



# ASSET QUALITY

Your responsibilities regarding asset quality are to provide a basis for responsible lending, oversee management's maintenance of an adequate ALLL, and retain qualified lending personnel.

You will do this through your involvement in developing and approving your bank's lending policies. Through policies, directors set the risk limits for the bank by specifying the type of loans they want the bank to make and methods to determine an adequate ALLL. Directors may also occasionally participate directly in making significant lending decisions, or reviewing, approving, and monitoring the loan decisions of others.

Asset quality refers to the amount of risk or probable loss in a bank's assets and the strength of management processes to control credit risk. Where these losses are judged to be small and management processes are strong, asset quality is considered good. Where losses are large and management processes are weak, asset quality is considered poor. A comprehensive evaluation of asset quality is one of the most important components in assessing the current condition and viability of a bank.

A bank can suffer asset losses in many ways. For example, it may experience loan losses because of borrower unwillingness or inability to repay. The bank may see a decline in the value of its repossessed or foreclosed collateral, like other real estate owned, because of poor market conditions. It may suffer depreciation in its securities holdings, because of market interest rate changes or issuer default. Additionally, it may experience losses from theft or incur losses on deposits held at other financial institutions that fail.

Of these losses, the greatest concern is with credit quality in the loan portfolio. This is because historically most bank failures occur because of loan problems. <sup>10</sup> Loans typically constitute a majority of a bank's assets, and interest earned on loans is an important source of a bank's revenues. Consequently, even relatively small problems in a bank's loan portfolio can quickly reduce earnings, deplete capital, and cause insolvency.

This section discusses bank asset quality, focusing on the quality of the loan portfolio. It discusses possible causes of loan problems and methods typically used by banks to manage loan quality. It also discusses some tools you may find useful for monitoring asset quality.

### Sources of Asset Quality Problems

Over time, various lending practices have been associated with greater credit risk for banks. For example, studies show that lax lending policies, failure to follow the tenets of sound lending (including proper analysis of the borrower's ability to repay and maintaining appropriate loan documentation), excessive loans to insiders, and concentrations of credit can lead to loan problems and bank failure.

Because of this, laws and regulations address many of these known lending trouble spots, and examiners during the course of their review look for compliance with these laws and regulations. Additionally, they scrutinize loan policies, loan review, loan documentation and administration, and loan monitoring, looking for weaknesses in the lending function. Despite restrictions, banks have considerable latitude in their lending.

Besides making good loans that will be repaid, it is important for the bank to judge credit risk and price it appropriately. This is the principal business of banks. Pricing appropriately means that the greater the risk, the higher the interest rate should be on the loan. How well an individual bank does this job largely determines its profitability and viability.

#### The Loan Policy

Decisions regarding extensions of credit, loan review, ALLL, and charge-offs are all important matters that should be addressed by written policies approved by the board of directors. Policies provide objective criteria for evaluating individual credit decisions and help promote consistency and stability in the lending function. In doing so, lending policies help a bank avoid pitfalls that may lead to loan problems.

Because a bank's lending function has ramifications for its overall financial condition, it is important that lending policies take into consideration the total bank. In this regard, the bank's lending orientation, trade area, size, facilities, personnel, and financial resources deserve consideration. The bank's trade area and customer base, competition, and the state of the local and national

economy also need to be taken into account. The bank's liquidity position and its sensitivity to interest rate movements are additional factors to consider.

It is easy to see why close attention to these matters is important in guiding a bank's lending decisions. For example, if a bank's strategy is to be a consumer bank, then its lending policies should emphasize installment lending with less attention given to commercial or real estate lending. If the bank's strategy is to pursue a specialized type of lending activity, then it should make sure it has the facilities and the qualified staff necessary to support this type of lending.

Today, almost all banks operate with written loan policies. The details covered in these policies vary from bank to bank, depending upon individual needs and circumstances. Despite this, bank loan policies tend to have common elements. For example, policies usually set out objectives to be accomplished. Basic objectives often include:

- granting loans on a sound and collectible basis;
- investing the bank's funds profitably for the benefit of share-holders and the protection of depositors; and
- serving the legitimate credit needs of the bank's community.

Additionally, most policies spell out the scope of the bank's lending activities (for example, where it will make loans, maximum size and types of loans it will make, and the terms on which it will make those loans) and how loans will be made, serviced, and collected. Additionally, they address "who will grant credit, in what amount, and what organizational structure will be used to ensure compliance with the bank's guidelines and procedures." Reference 3.5 summarizes many of the factors covered by loan policies.

## The Allowance for Loan and Lease Losses (ALLL)

Besides the loan policy, an important consideration in managing bank asset quality is the ALLL. The ALLL was formerly called the reserve for bad debts or reserve for loan losses, so you might still hear someone refer to the ALLL as "the reserve."

The ALLL is a bank's best estimate of the amount it will not be able to collect on its loans and leases based on current information and events. To fund the ALLL, the bank takes a periodic charge against earnings. Such a charge is called a provision for loan and lease losses.

#### REFERENCE 3.5

#### MATTERS TO CONSIDER IN DEVELOPING A LOAN POLICY

- Acceptable types of loans and loan collateral.
- Guidelines and methods to determine ALLL adequacy
- Proportion of loans by type (agriculture, commercial, consumer, real estate) in the loan portfolio and the maximum amount the bank will commit to a single borrower, groups of borrowers, or industries.
- Geographic area in which the bank will ordinarily lend.
- Documentation requirements, acceptable financial ratios, and other factors considered by the bank in credit decisions.
- Collateral appraisal standards and who can perform appraisals.
- Pricing, structure, and other loan terms, including maximum loan term.
- Limits on renewals and extensions, including specific criteria for additional lending to problem borrowers.
- Periodic review, inspection, and administration of loans after disbursement.
- Criteria for collecting delinquent loans and charging off loans.
- Procedures for exceptions to the loan policy.
- Requirements and limitation on loans to "insiders" and their related interests.
- Compliance with consumer protection, fair lending and community reinvestment laws.
- Internal loan review program.
- Reports to the board of directors.
- Loan policy review by the board of directors.

When loan losses occur, the bank charges them to the ALLL. Thus, the ALLL provides a protective cushion for bank capital and an additional layer of depositor protection.

A bank should have a defined method, or ALLL policy, for determining an adequate level for the ALLL. This may be a separate bank policy or included in the loan policy.

If the ALLL method is nonexistent or materially flawed, loans on a bank's books will be carried at inflated values. Until the proper provision is charged, earnings and capital will be overstated. This may lead to the filing of inaccurate call reports of condition and income, for which there could be monetary penalties.

Generally, the ALLL policy establishes:

- lines of responsibility for determining an appropriate reserve for the bank;
- the bank's loan loss methodology;
- the bank's loan review system, including its loan grading system, and responsibilities for its implementation;
- criteria and procedures for charging-off and collecting on charged-off loans;
- reports and communication channels among those involved in the ALLL determination process;
- periodic independent review of the ALLL determination process for compliance with policy, adequacy with respect to the bank's charge-off history, changes in the size and complexity of its lending, and consistency with accounting and supervisory guidance; and
- the periodic review of the ALLL policy by the board of directors.

Because of the importance of ALLL, the federal banking agencies issued updated policy guidance on ALLL methodologies and documentation in late 2006.<sup>12</sup> The guidance sets out board and management responsibilities for ensuring a bank has an appropriate reserve and requires that the ALLL be determined in accordance with generally accepted accounting principles (GAAP) and supervisory guidance.

Under the guidance, the ALLL is comprised of mainly two components. The first component includes the estimated loss in impaired credits. The estimated losses in these credits constitute the Financial Accounting Standards Board (FASB) Accounting Standards Codification Section 310-10 (ASC 310), Receivables—Overall (formerly Statement of Financial Accounting Standards No. 114) portion of the ALLL. The second component, the FASB Accounting Standards Codification Section 450-20-25 (ASC 450), Contingencies—Loss Contingencies—Recognition (formerly Statement of Financial Accounting Standards No. 5) component, includes the estimated loss in the remainder of the bank's portfolio.<sup>13</sup>

In overseeing management of the ALLL, you are responsible for:

- reviewing and approving the bank's written ALLL policies and procedures at least annually;
- reviewing management's assessment and justification that the loan review system is sound and appropriate for the size and complexity of your bank;
- reviewing management's assessment and justification for the amounts estimated and reported each period for the ALLL; and
- requiring management to periodically validate and, when appropriate, revise the ALLL methodology.

It is unlikely you will actually develop the data for the components that make up your bank's ALLL. However, basic information about the general framework on which the ALLL methodology is based may help you establish your ALLL policy. The policy can provide staff guidance for determining an appropriate reserve, assist in your quarterly review of the reserve's adequacy, and aid in determining if changes should be made in the bank's reserve methodology and its supporting documentation. Reference 3.6 summarizes the framework outlined by the banking agencies in their policy guidance for the ALLL, setting out steps used to calculate the ASC 310 and ASC 450 portions of the ALLL.

Years ago, a general benchmark was often used for ALLL adequacy. The benchmark was 1 percent of total loans. However, with the

### REFERENCE 3.6

### Framework for Determining an Adequate ALLL

A bank's ALLL balance consists primarily of a ASC 310 component and a ASC 450 component. In their 2006 policy guidance, the banking agencies discussed matters to consider in constructing each component and provided suggestions and examples of documentation to support a bank's ALLL methodology. The following briefly summarizes the framework provided by the banking agencies to determine the ASC 310 and ASC 450 components of the reserve.

There are three steps to estimating the ASC 310 portion of a bank's reserve. The first step requires identifying loans that are to be evaluated separately for estimated loss. For instance, a bank may evaluate all loans above a certain size or loans above a certain percentage of its capital for impairment under ASC 310, hereafter referred to as ASC 450 loans. Alternatively, it may designate loans identified through its loan review as requiring special attention by management to be evaluated separately for impairment. Regardless of the way the bank identifies ASC 310 loans in the portfolio, the method and process it uses to identify these loans should be documented in writing.

The second step requires determining if the previously identified ASC 310 loans are impaired and, if so, the amount of impairment. Impaired loans are those where it is probable (is likely to occur), given current information and events, that the bank will not receive contractual principal and interest when due. Once the bank's analysis establishes which of its ASC 310 loans are impaired, the amount of impairment is determined. This is done by assigning all impaired ASC 310 loans to one of three categories (collateral-dependent, saleable loans, cash flow loans) and comparing their fair value with that on the bank's books.

Collateral-dependent loans are those where payment may come solely from collateral pledged to the bank in the event of borrower default. A vast majority of loans at most banks are made with some form of collateral support so that the impairment in them will have a significant influence on the estimated reserve balance.

The estimated fair value for collateral-dependent loans is the appraised value of the collateral adjusted for such things as holding costs before the collateral is sold, maintenance cost during the period the bank expects to hold the collateral, selling costs, and any other economic or financial factors that may influence the realizable value from the sale. In instances where the recorded amount of a collateral dependent loan exceeds its estimated fair value and other available information supports the likelihood of loss, the excess needs to be immediately charged off against the ALLL.

Saleable loans are those that have an observable market price. The fair value of these loans is what an independent third party, in an arm's length transaction, would be willing to pay for them.

Cash flow loans make up the rest of the portfolio. The fair value of these loans is the sum of the present values of their discounted expected cash flows over their projected lives, taking into account the effective discount rate and factors that may affect the amount and timing in cash flows.

Like other steps in determining an appropriate ALLL, the analysis done to determine impairment and the rationale for the measurement method used to estimate the amount of impairment in each ASC 310 loan category need to be documented in writing to support calculations made.

The third step requires calculating the ASC 310 amount for the reserve. This is done by summing, within each category, the difference between the book value and the fair value of all loans whose fair value is less than book value. The total represents the ASC 310 component of the ALLL.

The ASC 450 component of the ALLL consists of loans that are evaluated on a group basis. There are three basic steps for developing this amount of the reserve as well. The first step

requires segmenting the non-ASC 310 portion of the portfolio into homogenous groups with similar risk characteristics (for example, by agriculture, business, consumer, and real estate loans). One segment may also include ASC 310 loans that were not found to be impaired in the bank's ASC 310 analysis but may still include some potential loss. For these loan groups, the idea is that the probability of loss is not associated with an individual credit. Instead, within the group of loans, the bank may experience some amount of loss. The basis or the rationale for the segments the bank uses should be documented.

The second step in determining the ASC 450 component is to apply a loss factor to each loan segment. These loss factors can be based on a bank's own historical experience, adjusted for such things as:

- level and trend of delinquencies and impaired loans;
- levels and trends in charge-offs and recoveries;
- changes in lending philosophy and underwriting standards;
- changes in experience, ability, and depth of lending management or other relevant staff;
- national and local economic trends and conditions; and
- the effects of credit concentrations.

If a bank does not have loss experience of its own, it may use that of other banks that have portfolio segments with similar risk attributes. Regardless of the source of loss rates, the bank needs to provide the supporting rationale for the rates it uses. It should provide information about the time frames over which the rates are calculated, support adjustments it makes to those rates, and document that the loss rates it uses are in accordance with GAAP.

The third step requires calculating the ASC 450 component of the reserve. This is done by simply adding the estimated loss for each segment. Once calculated, the ASC 450 component is added to the ASC 310 component to provide an estimated ALLL balance.

advent of ASC 310 and ASC 450, such a benchmark is wholly inadequate. If you hear bank staff or management tell you, "The ALLL is OK, because it's 1 percent of loans," you should ask questions as to why the ALLL is adequate.

Determining an adequate ALLL for a bank requires considerable judgment. In the end, it represents management's best estimate, given the facts and circumstances when the estimate was made, of estimated credit loss in the bank's loan portfolio. To achieve consistency in this estimate requires policy guidance, supporting written documentation, and periodic review to validate and assess the need for changes in determining the bank's ALLL balance.

# Monitoring Bank Asset Quality

Given the significance of credit risk to a bank's financial condition, it is important that you monitor the level and trend in loan quality and assess the adequacy of the ALLL at your bank to judge the effectiveness of policies in managing asset quality. To do this, you can draw upon a number of information sources.

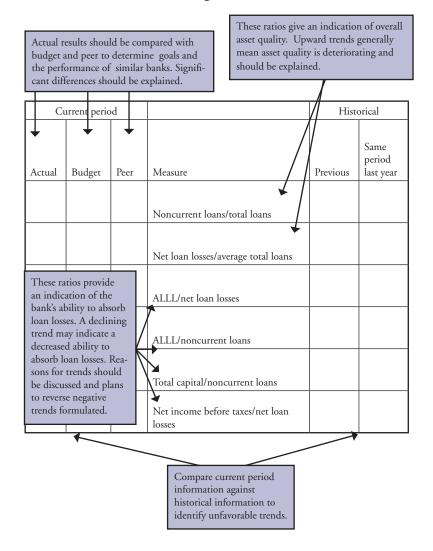
These sources include financial statements prepared by the bank; reports developed by the bank's lending, loan review, and internal audit functions; and reports developed by independent parties, external to the bank. The bank's financial statements can be used to construct broad asset quality measures for comparing its current loan quality with planned and historic figures and with quality at other banks. Reference 3.7 provides frequently used ratios to judge asset quality and reserve adequacy.

In addition to financial statements, there is other information by which you can assess credit risk management. For example, during a bank examination, assets, such as loans and investments, are reviewed by the examiners and assigned a classification. Those assets for which there are no concerns are given a "pass" rating. Those for which there are concerns may be classified into one of the following categories:

Substandard, which means the asset is inadequately protected by the current sound worth and paying capacity of the obligor or of the collateral. It has a well-defined weakness that if not corrected could jeopardize the liquidation of the debt. In lay terms, this often means that the primary source of repayment is no longer viable, but secondary sources, including the collateral, cover the value of the loan.

### REFERENCE 3.7

## RATIO ANALYSIS—ASSET QUALITY



- **Doubtful**, which means the asset has all the weaknesses exhibited in the substandard asset, but that the weaknesses make collection or liquidation in full highly questionable. Again, in lay terms, this typically means that the primary source of repayment is no longer viable and there is some question as to the viability or value of the secondary sources of repayment. The viability or value of the secondary sources is subject to some event transpiring that brings them into better focus.
- Loss, which means that the asset is considered uncollectible and of such little value that its continuance as a bank asset is no longer warranted. In other words, they should be charged off the bank's books as keeping it would be a misrepresentation of the bank's financial position and condition. This classification does not mean the asset has no recovery or salvage value, or that the bank must cease collection efforts.

Banks should have their own internal loan review system to maintain an ongoing review of their credit risk and asset quality. Your bank's internally graded loans<sup>14</sup> can be used to create a "problem loan" or "watch list" of credits that may pose above-normal credit risk that deserve special attention by management.

You should review this list periodically and consider these questions:

- Is the list growing or shrinking with time?
- If it is growing, what is the reason behind the increase?
- Is there a written plan to fully collect or minimize the bank's loss on each listed credit?
- Is progress being shown in collecting credits listed?
- Does the list show signs of poor problem loan identification? (For example, are loans listed in one period and charged off the next?)

When you hear bank examiners speak about asset quality, you may hear them use the term "total classified assets" and relate it as a percentage of capital. You can use your watch list information to construct two benchmark ratios used by examiners as part of their assessment of your bank's asset quality:

### • Total classified assets ratio

> The sum of watch list loans graded substandard, doubtful and loss divided by the sum of the bank's Tier 1 capital and ALLL. If your bank uses numerical ratings, ask management to translate these ratings into the substandard, doubtful, and loss classifications used by examiners. The federal and most state banking agencies use this ratio.

### • Weighted classified assets ratio

- > Used by the Federal Reserve, it is a ratio that is useful in a self-assessment of your bank's asset quality.
- > Problem loans are weighted according to their severity:
  - loss loans are multiplied by 1.0;
  - doubtful loans are multiplied by 0.5; and
  - o substandard loans by 0.2.
- The weighted sum is divided by the sum of the bank's Tier 1 capital and ALLL.

See Reference 3.8 for sample calculations of the total classification and weighted classification ratios.

A total classified assets ratio nearing 40 percent or a weighted classified assets ratio approaching 15 percent may be indicators of less-than-satisfactory asset quality. However, you should not wait until ratio values reach these levels before asking management about its plans for addressing loan quality at your bank. The fact that the ratios are rising and moving toward these values should be enough to trigger your concern and questions to management.

While the sample calculation includes loss loans, the amount of loss loans should be relatively small, if not zero, at any given point. The reason for this is that when a loss is recognized in a loan, the bank should promptly charge it off.

Besides the watch list, there are reports on new loans, delinquent credits, nonaccrual loans, restructured loans, charge-offs, overdrafts, and transactions with insiders and their related interests that may give you insights regarding potential loan problems and

#### REFERENCE 3.8

### WEIGHTED CLASSIFICATION RATIO

Loan Classifications x		Loss Weighting =	Weighted \$Amount
Substandard	\$200	.2	\$40
Doubtful	\$800	.5	\$400
Loss	\$150	1.0	\$150
Total	\$1,150		\$540
Tier 1 Capital + ALLL			\$4,400
Total classified assets ratio			26.14%
Weighted classified assets ratio			12.27%

management's speed and effectiveness in addressing those problems. In looking at these reports, ask management to explain sudden and large movements in items listed. You may also want to compare reports, looking for borrowers that appear on multiple reports, or you may want to track reports over time to see if the same borrowers reappear. Once again, you may ask management to explain circumstances pertaining to these borrowers.

Internal and external audit reports are another useful information source for keeping abreast of asset quality at your bank. The federal banking agencies encourage all institutions to establish some form of internal audit function to inform directors and senior management of the adequacy, effectiveness, and efficiency of accounting, operating, and administrative controls and to provide an assessment of the quality of ongoing operations. This function may identify weaknesses in and noncompliance with lending policies and procedures and make recommendations on matters to be corrected.

In addition, the directorate itself is sometimes required by the bank's bylaws or by banking law to perform a "directors' examination" to keep itself informed about the bank. This examination may include an evaluation of the bank's financial condition and the adequacy of its reserves.

Similarly, audits and asset/operational reviews performed by accounting firms, consulting firms, and others may help identify

policy compliance weaknesses, provide data on loan quality, furnish an assessment of the bank's loan review system, determine the adequacy of its loan administration, and give an indication of loan documentation inadequacies.

Bank examination reports are another valuable source of information on the bank's lending function. Among other things, examiners review asset quality, ALLL adequacy, loan review adequacy, loan policy adherence, and credit administration effectiveness. They also provide an overall assessment of a bank's ability to identify, administer, and collect problem credits.

In using your bank's examination reports to gauge its asset quality, you can compare the level and severity of loan classifications with internally generated loan grades as a form of "reality check." You may want to ask management to address any examiner comments calling for increased reserves and for improving loan policies and credit administration. If you see repeat criticisms on these and other matters pertaining to the lending function in the bank's examination reports, you should ask management for specific plans to address the criticisms and monitor implementation of plans to correct them.

Finally, another method by which to monitor credit risk is to stress test the loan portfolio. An institution's lending policies should prescribe meaningful stress testing of the loan portfolio. Portfolio stress testing allows management to quantify and assess the bank's ability to withstand the impact of changing economic conditions, such as a change in interest rates, on asset quality, earnings, and capital. Banks should consider stress testing portfolio segments that possess common risk characteristics to potential market conditions, like commercial real estate loans. The sophistication of stress testing practices and sensitivity analysis should be consistent with the size, complexity, and risk characteristics of a bank's loan portfolio.

In summary, bank directors are responsible for asset quality and for ensuring their banks maintain an adequate reserve to absorb loan losses. To do this, you and other board members should establish a policy to guide the bank's lending activities. Additionally, you should put in place policies and processes to determine probable loss in the loan portfolio and to maintain an adequate reserve to cover these losses. Finally, you should monitor asset quality and the adequacy of the reserve to ensure that the policies in place are effective in preserving bank asset quality and cushioning the bank against foreseeable losses.

## **MANAGEMENT**

A director's main responsibilities regarding management are to:

- provide competent management for the bank;
- participate in board meetings;
- develop the bank's strategic plan;
- establish clear policies and monitor the bank's operations; and
- know where the bank stands.

The term "management" refers to a host of factors necessary to operate a bank in a safe and sound manner. It includes the quality and character of individuals who guide and supervise the bank, encompassing their:

- knowledge, experience, and technical expertise;
- leadership, organizational, and administrative skills;
- planning skills and adaptability; and
- honesty and integrity.

"Management" also encompasses the policies, procedures, and controls these individuals have put in place to protect the bank from excessive risk and the systems they have installed to provide feedback on the bank's financial and operational status. This section discusses the director's role as part of the bank's management team. It sets out director responsibilities as part of this team and suggests matters to consider in judging bank management performance.

### Director's Role

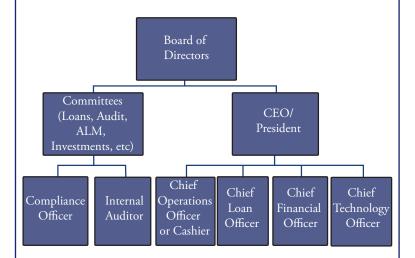
Your bank is a corporation organized and chartered under state or national law. Like other corporations, it is managed under the oversight of a board of directors that is elected by its shareholders. The board normally delegates the authority and responsibility for running the bank on a daily basis to its officers (See Reference 3.9). Despite this, you, as a director, ultimately remain accountable to the bank's shareholders and other stakeholders—employees, depositors, community, and regulators—for its safe, sound, and efficient operation.

In discharging these responsibilities, you owe your bank the duties of care, obedience, and loyalty. Duty of care means that you will devote time, exercise ordinary diligence, and use reasonable

### REFERENCE 3.9

### BANK GOVERNANCE

In simple terms, governance is how corporations organize themselves to accomplish their goals. This chart shows the governance structure typically found at many banks, outlining reporting relationships and job responsibilities. As such, it shows the importance you, as a director, have as part of the bank's management team.



At the top of the structure is the board of directors. The board of directors is ultimately responsible to the bank's shareholders and other stakeholders for its profitable operation and its compliance with all applicable laws and regulations. The board is led by a chairperson who heads the bank and has responsibility for the effective functioning of the board.

Reporting directly to the board is the bank's chief executive officer (CEO). The CEO is responsible for running the bank on a daily basis.

Reporting to the CEO are a number of officers who have responsibility for the daily management of various facets of

the bank's operations. For example, the chief lending officer is responsible for the bank's lending function. The chief operating officer or cashier is responsible for all aspects of the bank's daily operations. The chief financial officer is responsible for all financial aspects of the bank's operations. The chief technology officer is responsible for oversight and maintenance of the bank's investments in technology.

The chart also shows board committees. Committees do work for the board and make recommendations to the board on matters under their purview. They distribute the board's workload, making possible more in-depth analysis and discussion of issues confronting a bank and its management. Consequently, they play an important role in helping boards be more effective in their oversight.

Reporting directly to a board committee, most likely the Audit Committee, is the head of internal audit and, perhaps, the compliance officer. An important job of internal audit is to look for the presence, adequacy, and compliance with the bank's financial and operational controls, processes, and procedures (collectively controls). Because the CEO has responsibility for the bank's controls, most boards have the head of internal audit report to the Audit Committee or the board. This is to avoid conflicts of interest and to help obtain an unbiased evaluation of the bank's controls.

judgment to ensure your bank is run prudently and with due regard for the bank's stakeholders. It also means that you will act in good faith, and not misuse your position or confidential bank information for your personal benefit.

Duty of obedience means you will obey applicable laws in your personal dealings with the bank and ensure that your bank complies with laws and regulations.

Duty of loyalty means you will not engage in activities or make use of information obtained as a director that benefits you or benefits you at the expense of your bank. All of your dealings with the bank should be at arm's length and not on preferable terms.

Your bank should follow a board-approved policy on insider transactions that addresses a code of conduct, ethics, and conflicts of interest. On such matters that come before the board, the affected director should be excused from the meeting so that he or she does not participate in discussions or voting on those matters.

The policy on the code of conduct should address the board's response to misdeeds or misfortunes of the individual directors. This is to protect the bank's reputation. For example, in the unfortunate circumstance that a director's financial situation becomes tenuous, such as a filing for bankruptcy or defaulting on a loan to the bank, or they are charged with a crime of mistrust, the policy should address the expectation for the director to suspend, voluntarily or otherwise, his or her involvement with the board. The policy should go so far as to specify the circumstances under which the director will be removed absent voluntary resignation when such is in the best interests of the bank.

Beyond these basic obligations, there is no definitive list of the basic responsibilities for the board of directors and its members. However, several key responsibilities are commonly cited and are discussed below.

### Provide the bank with competent management

Directors are charged with providing the bank with capable management. If management is poor, all areas of the bank's operations suffer. Moreover, you and other board members will have to spend considerable time and effort to correct problems in order to restore the bank to a satisfactory condition. Because of this, providing the bank with competent management is often listed as job number one for bank directors.

Providing the bank with competent management does not mean that individual board members take responsibility for running the bank's daily operation. That is not a director's job. Instead, board members are charged with the responsibility of providing a bank with a competent CEO to manage its daily operations, advising that management, and making sure succession plans are in place to provide for the bank's future management.

Hand-in-hand with this responsibility is the job of periodically evaluating management to make sure it is meeting the board's expectations in running the bank.

"[It is an] inescapable responsibility of directors to see that management is doing its job. The wise choice of capable management and the removal of management that fails the responsibility are true central and culminating responsibilities of the board." 15

While a formal performance appraisal process is not required, it is highly recommended as it provides for a regular, documented discussion of the CEO's performance. This is true for all bank employees, although directors usually evaluate the CEO, with management evaluating the remainder of the staff.

Evaluating management calls for the consideration of many factors, requiring you to draw on a number of different sources of information. Among these sources are the bank's financial statements, internal/external audit reports, other reviews conducted or commissioned by the board, and supervisory reports of examination.

An important part of the evaluation will be a review of the bank's financial statements. Declines in financial performance and unfavorable comparison with peer banks may be indicators of management inadequacies.

However, some boards fall into the trap of thinking that financial performance trumps all else when evaluating the CEO. Financial performance should not be the sole measure of management performance.

Bad management practices can be masked by such things as a strong economy or a strong competitive position. Once conditions reverse or competition strengthens, poor practices are revealed. Thus, your review should look behind the numbers to the organizational and operational matters that produced the bank's operating results. This means understanding the reasons for the bank's performance and determining if it is sustainable. It also requires an analysis of the level of risk the bank has assumed, whether it is reasonable and within the board's risk tolerances, and determining if management is aware of the risks being taken.

You can glean information on these and other matters relating to the management of your bank from a number of sources. One source is the director's packet, which is described later in this section under *Know where the bank stands*. Another source is information gathered from the board's own oversight of bank operations. At many banks, directors review loans and other major decisions made by bank officers. At smaller banks, one or more board members may be responsible for conducting these reviews and making periodic reports to the full board. At larger banks, board committees may carry out this review role.

Of the review tools available to the board, the audit is probably the most valuable. The OCC and many states require directors to commission an examination of their banks. Additionally, federal and state banking authorities encourage banks to establish an independent audit function that reports directly to the board of directors. Moreover, federal banking law<sup>16</sup> requires certain insured institutions to establish an independent audit committee made up of outside directors who are independent of management. For larger institutions, the audit committee must include members who have banking or related financial institution expertise. In certain instances, the law requires insured depository institutions to have their financial statements audited by independent public accounting firms in accordance with generally accepted accounting principles.

Bank examination reports are another important information source for judging management. Examination reports discuss adequacy of policies, procedures, and controls, and specifically address the matter of management adequacy, pointing out areas that need improvement.

Quality of risk-management practices and internal controls is an important element in an examiner's evaluation of bank management. One element of those controls is to provide business contingency planning for the bank. Reference 3.10 provides matters to consider in your reviewing the adequacy of your plan, which will help in your evaluation of management.

Together, board reviews and examination reports will help you piece together an accurate, qualitative picture of management at your bank. As you look over these materials, consider some of the ideas presented in Reference 3.11. It is important to note that the checklist is not meant to be all-inclusive of the things to consider in your review of management. There may be other standards of performance adopted by the board at your bank for evaluating management.

Before closing this discussion on management evaluations, one last matter deserves consideration. Directors are part of the bank's management team. As such, the board should evaluate its own performance and that of it members. Many boards feel uncomfortable doing this because of the collegial nature of boards.

However, peer review is an important ingredient in ensuring the board remains effective in it bank oversight. Such reviews identify individuals who provide little, if any, meaningful contribution to the bank's management, or who try to dominate the board's decision-making. These individuals may not regularly attend board and committee meetings or they may habitually arrive late or leave meetings early. They may not prepare for meetings by reviewing reports and other materials to be discussed. They may remain nearly silent throughout meetings, or they may be combative and disdainful of others' views. They may dominate all discussions and limit the free interchange of ideas. Reviews, therefore, become a tool for changing behavior or for providing a basis for not re-appointing a director. In the end, reviews make the board stronger and its oversight more effective.

Reviews can help strengthen boards in other ways. For instance, they may help identify knowledge gaps that need to be filled to better align board expertise with the bank's activities. Reviews may help show the need for changes in board committee structure to better support the board in managing its workload.

### REFERENCE 3.10

# OPERATIONAL RISK MANAGEMENT: BUSINESS CONTINGENCY PLAN (BCP)

One aspect of operational risk is business contingency planning. The purpose of a BCP is to return the bank to an operational mode in the aftermath of some uncontrollable event until permanent operations can be restored, minimizing the consequences of such events.

Once a BCP is in place, it is just as important to determine if it works. The best way to make this determination is to test the BCP and adjust it accordingly to fill any gaps revealed by the test. Critically important components for any test are the set of assumptions used in it, the scope of the test, and the time period simulated.

If test assumptions are unrealistic, then the results may provide a misleading picture of the bank's ability to operate subsequent to an adverse event. For example, if the test does not incorporate appropriate assumptions regarding staff availability and ability to reach contingency sites, it may not reveal operations being impaired due to inadequate staff resources. Similarly, if the test's scope only involves selected functional areas of the bank, rather than the whole bank, it may miss key interactions with other parts of the bank. A whole-bank test may be more revealing, because it simulates the interaction of all departments/functional areas of the bank under adverse conditions. Finally, if the time period assumed for operation under the BCP is too short, test results may not show the depletion of resources critical to operations, e.g., diesel fuel to run backup generators.

Here are some questions to keep in mind as you review your BCP:

Has the plan been updated to reflect operational

changes at the bank, e.g., opening new offices, organizational, product, and personnel changes, etc.?

- What triggers the plan?
- Who communicates with the public about the bank response to an event?
- Who has responsibility for what under the BCP?
- Has the plan been tested recently?
- Was the test for the whole bank or a department or functional test?
- What assumptions were made in conducting the BCP test, and were they realistic?
- Have shortcomings from BCP tests been addressed?

Answers to these and other questions will help you assess the adequacy of the bank's risk-management processes for identifying, measuring, monitoring, and controlling operational risk.

# Reference 3.11

# MATTERS TO CONSIDER IN EVALUATING MANAGEMENT

	Yes	No
Is the bank operated in a safe and sound matter?		
Is the bank operated in compliance with laws and regulations?		
Does the bank compare favorably with other banks in major performance areas, such as capitalization, asset quality, earnings, liquidity, and sensitivity to market risk?		
Does management respond quickly to address shortcomings identified in audits and supervisory examinations?		
Does management keep the board informed and provide sufficient and timely information on the bank to enable the board to judge the bank's operational and financial status?		
Are decisions made by management consistent with goals, plans, and policies set out for the bank?		
Is management responsive to requests, directives, and questions from the board, including complying with board-approved policies?		
Does management have the knowledge and expertise to supervise the affairs of the bank effectively, instill confidence, and demonstrate an ability to lead the bank?		
Is management informed about the affairs of the bank and knowledgeable about events in the community that may affect the bank?		
Are management's presentations and recommendations to the board done so on a timely basis, of high quality, and accurate?		

	Yes	No
Has management put in place a corporate structure that establishes lines of authority and accountability; provides for delegation of authority and monitoring of delegated responsibilities; and permits open communication and free flow of information within the bank?		
Has management seen to the staffing needs of the bank: established job descriptions, hired qualified staff, offered competitive compensation, provided training, and planned for management succession?		
Has management established information systems to provide timely information on the status of the bank in order to identify evolving problems quickly?		
Has management put in place sufficient procedures to direct the bank's operation and instituted sufficient internal controls to protect the bank's resources?		
Does management plan for the bank and develop reasonable strategies for carrying out these plans?		
Does management, in conjunction with the board, develop budgets for the bank and keep the board informed of the bank's progress in meeting budget goals?		

### Participate in board meetings

To remain knowledgeable about the bank's affairs, it is crucial that you attend regular and special board and committee meetings. When attending, you should participate in the deliberations and ask questions if you do not understand what is being presented. For example, if the bank is going to engage in a new lending activity, make "high-risk" investments, or enter into some new nonbanking activity, you might ask at the meeting:

- Do we really understand the activity and its risks?
- What analyses have been done to quantify the risks?
- Do we have the personnel and control systems necessary to protect or lessen the bank's exposure to these risks?
- Does it make sense for our bank given its size, location, and expertise?
- Is the activity or investment consistent with our bank's long-term objectives?

It is important to not blindly accept management's recommendations, or assume "they know what they are doing" or "it's OK" on issues you don't understand. As a director, you need to be an independent thinker and a good questioner, not a rubber stamp. Where your knowledge is limited on matters before the board, ask for explanations to improve your understanding. If you don't understand an answer, ask more questions until you do, for you cannot exercise effective oversight of the bank until you understand the matters being discussed.

It is important to record the board's deliberations and those of its committees in meeting minutes. You should review the minutes from meetings you attend for their accuracy and completeness before you approve them. Minutes are an official record of a bank and play an important role in the supervisory assessment of your bank.

During the course of an examination, examiners review all board minutes since the last examination. In broad terms, they use this review to determine if the board of directors is meeting its oversight responsibilities. Among other things, examiners note attendance at board meetings and if the board has:

- approved business strategies for the bank;
- · approved and reviewed policies that articulate risk toler-

- ances and set exposure limits for its important activities; and
- periodically reviewed the bank's performance in order to monitor its risk exposures and effectiveness of its risk management.

Additionally, examiners note discussion and resolution of issues on introducing new products, serving new customers, or entering into new geographic areas. They watch for the creation of new committees and the responsibilities given to these committees. They are also interested in major board actions that are not part of the normal monthly meeting and board actions that may be in contravention of the bank's bylaws or banking laws and regulations.

Another use of board minutes is to determine which individual directors may be responsible or liable for substantive violations of law or actions that harm a bank. For example, if a bank exceeds its legal lending limit to an individual borrower, the approving directors may be exposed to personal liability should any loss be incurred on those loans.

This is why it is important for directors to voice their opinions, concerns and dissenting votes in board meetings and for those to be appropriately documented in the board minutes. Review them before approving them. This review may pay dividends later if the bank encounters problems and the board's diligence is questioned. Otherwise, the record will not be there when you need it most. As one examiner put it, "If it's not in the minutes, it didn't happen."

## Plan for the bank

The board sets the long-term direction and goals for a bank to make sure there is an orderly transition from where the bank is today to where it will be tomorrow. Providing long-term direction helps the bank identify financial and personnel resources and technological and organizational capabilities needed to meet its goals. It provides management a guide that can be used to compare shorter-term decisions for their consistency with the bank's longer-term goals. Additionally, planning helps management budget resources to move the bank progressively toward long-term objectives. Because of this, decisions that represent major changes in direction or philosophy from the bank's established plan should be given careful consideration since

they often carry resource implications for the bank.

In addition to long-term planning, the board has responsibility for making sure the bank has adequate plans and backup procedures in place to address operational contingencies, such as destruction of its building or failure of its automated systems. Those plans should be tested periodically to identify any weaknesses and to ensure they work as intended. Preferably, tests should be done on a whole-bank basis in order to identify any gaps that need to be fixed among the bank's many functions.

# Establish clear policies and monitor the bank's operations for compliance

Another key responsibility of directors is to establish written operating policies covering such facets of the bank's operations as lending, ALLL, investments, asset/liability management, and ethics and conflicts of interest. These policies establish risk limits and an operating framework for guiding the bank's operation. Whenever a bank has trouble, it is often due to the lack of adequate, written operating policies or frequently ignoring or overriding its policies.

Besides establishing policies, it is important that the board, in conjunction with senior management, establish the necessary internal controls to provide feedback on compliance and adequacy of policies put in place. Where deficiencies are noted, the board should ask for management's plans to address them and track management's progress in completing its plan.

#### Know where the bank stands

To be effective, it is important you remain knowledgeable about the bank's financial condition and the adequacy of its internal controls. Studies of failed banks show that many were governed by inattentive, uninformed, or passive directorates. As a result, many trouble signs went unrecognized until it was too late and the banks failed.

Keeping up with the bank requires the board to specify reports it needs for tracking the bank's progress and to study these reports. You should request and review meeting materials far enough in advance of a board meeting to give you the knowledge necessary to actively participate. The following outline of a board packet is not meant be all-inclusive, but, generally, it should contain:

- an agenda;
- minutes from the previous meeting; and
- key financial information, such as:
  - o Balance sheet
  - Income statement
  - Capital and dividends
  - o Comparisons to peer banks
  - Off-balance-sheet items

#### Reports in the packet will generally address:

- Lending:
  - o loan volume
  - o problem loans
  - o past-due and nonaccrual loans
  - o watch list loans
  - loan charge-offs and recoveries
  - o other real estate owned (OREO)
  - o new and large loans, renewals and participations
  - o lending limit
  - o analysis of the ALLL
  - o summary of internal loan reviews
  - o loans to insiders and affiliates
  - o overdrafts
- Asset/liability management, or funds management:
  - o analysis of interest rate sensitivity
  - o liquidity position
  - funding needs and sources
- Investments:
  - o Quarterly investment reports, possibly showing securi-

- ties designated held-to-maturity and available-for-sale
- o maturity breakdown by type of investment
- o market values and depreciation/appreciation
- o current investment ratings
- o list of securities purchased, sold and matured
- yield analysis

### Planning:

- o policies for review and approval
- o strategic planning materials

### Operations

- o risk assessments
- internal/external audits
- o insider activities
- compliance with laws and regulations
- marketing
- o new products and services
- o human resources/personnel matters
- o training plan

### • Regulatory matters:

- o recently completed reports of examination
- o assigned ratings
- o status of corrective action on previously noted deficiencies

## • Other significant items:

o legal actions taken by or against the bank

For more guidance, please see the OCC's *Detecting Red Flags in Board Reports: A Guide for Directors*, the Web link for which is in Chapter 6, Other Resources for Bank Directors. It offers detailed suggestions on what to look for in your reports and identifies red flags that should prompt questions from you.

Additionally, it is important that the board independently verify the information it receives through internal and external audits and examination reports. This is not to imply that management is dishonest or lacks integrity. It is simply a good business practice, or internal control, and a source of protection for the board.

One of the tenets of internal controls, by the way, is to evaluate the position a person is in, not the person in the position. What that means is even those that we trust can be driven to perpetrate a significant fraud when faced with a strong motive and the opportunity to do so due to the absence of controls to detect such a fraud in a timely manner.

### Make sure the bank serves the credit needs of the community

Banks have been and will continue to be vital sources of credit and the engines of economic growth for their communities. As a result, you have a responsibility for making sure your bank is an "unbiased" source of credit to the entire community. In this regard, you and other board members need to be aware of the economic environment in which your bank operates and be knowledgeable on any special credit needs of the communities it serves.

In summary, the board of directors has many obligations and responsibilities with respect to its oversight of the bank. The most important of these is to provide the bank with competent management, to evaluate management's performance, and to remove management that fails in its performance.

## **EARNINGS**

Your primary duties when it comes to bank earnings are to oversee and understand the bank's business performance and know the key areas that impact bank performance.

Besides being concerned with how much your bank earns, you should also concern yourself with the quality of the earnings. Earnings quality refers to the composition, level, trend, and sustainability of bank profits.

For bank directors and managers, earnings quality represents a "financial report card" on how well the bank is doing. When earnings

quality is good, the bank has sufficient profits to support operations, provide for asset growth, and build capital. Moreover, depositors are given an extra margin of protection, and shareholders receive a competitive return on their investment. On the other hand, when earnings quality is poor, the bank may not be able to adequately serve the credit needs of the community, provide for losses, or build capital. Depositors may be at greater risk, and shareholder returns may be inadequate.

For you, as a bank director, information on your bank's earnings performance and the factors contributing to that performance are invaluable in ascertaining the effectiveness of its risk management. This information helps pinpoint strengths and weaknesses and is essential to your success in governing the bank and meeting your responsibilities to its stakeholders.

Your board packet should contain sufficient financial information to allow you to:

- compare the bank's performance to budgeted goals;
- understand why goals are or are not being met;
- review the consistency of earnings; and
- determine if earnings are from planned bank strategies or from one-time, or extraordinary, transactions.

This section looks at the composition of bank earnings and discusses matters that influence earnings performance. It also presents some tools for monitoring and evaluating bank earnings quality.

# Composition of Bank Earnings

Bank net income is the difference between revenues and expenses, taking into account various gains, losses, and taxes. Bank revenues come from interest and noninterest sources. As expected, interest income from loans and investments makes up most of bank revenues. However, noninterest income from such things as fees, service charges, and commissions is an important and growing source of bank revenues. Likewise, bank expenses are comprised of interest and noninterest components.

Besides these revenue and expense components, bank net income is affected by other items. These include the provision for loan and lease losses, securities gains and losses, extraordinary items, and taxes.

## Factors That Influence Bank Earnings

The level and quality of bank earnings depend upon a host of factors, both external and internal to the bank. External factors relate primarily to the environment in which the bank operates and pertain to conditions that are largely beyond its control. They determine the relative ease or difficulty a bank encounters in turning a profit. Included among external factors affecting bank earnings performance are economic conditions, competition, laws, regulations, and technological change.

Instances where external factors have influenced profitability are fairly easy to find. For example, in the 1980s, declines in the agriculture, energy, and commercial real estate sectors in various regions across the country contributed to high loan losses at many banks, causing earnings to plunge. In the early 1990s, the downward slide in interest rates improved margins at many banks, causing earnings to surge. During the early part of the new millennium, the prolonged drop in interest rates that ended near a 40-year low, and a nearly flat yield curve, pinched earnings. Recent real estate loan losses and turmoil in the financial markets have made the task of earnings growth more challenging.

Despite the importance of external events on bank performance, internal factors often play an even more important role. One federal regulator noted that "... while poor economic conditions make it more difficult to steer a profitable course, [a bank's] policies and procedures ... have the greater influence on whether [it] will succeed or fail."<sup>17</sup>

From an internal perspective, bank earnings quality depends heavily upon a number of factors. Important among these are the bank's business strategy, asset/liability mix, asset quality, and operating efficiency. As you monitor your bank's performance, keep these factors in mind and think about how they, along with external factors, have and will influence earnings performance.

## Monitoring Bank Earnings 18

Return on average assets (ROAA), defined as bank net income divided by average assets, is one of the most often used measures to judge bank performance. Reference 3.12 shows the derivation of

ROAA from bank revenues, expenses, and other items. By looking at the items that make up ROAA, it is possible to isolate areas that lie behind poor or deteriorating performance.

From there, you can delve deeper into these areas, searching out root causes of bottom-line performance changes. Thus, the information in the reference should be considered a beginning step in monitoring bank earnings performance. The following sections discuss the individual components included in the reference in more detail, suggesting additional matters to consider as you review your bank's performance.

#### Interest income

Interest income consists of revenues from earning assets adjusted for tax benefits on tax-exempt loans, leases, and municipal securities. This revenue component is influenced by a number of factors. Some of the more important of these are a bank's business strategy, the interest rate environment in which the bank operates, the proportion of earning assets on its balance sheet, and the distribution of its asset holdings.

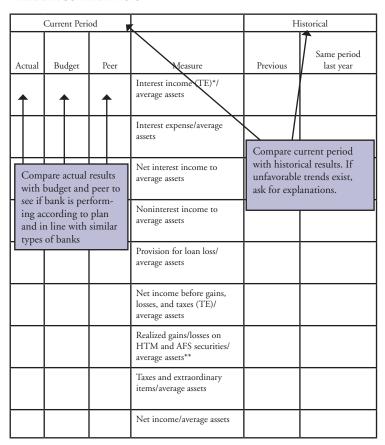
Consequently, if you see an adverse trend in your bank's interest income, check for changes in the character of its business. For example, there could have been a change in the types of loans, or loan mix, or a move from higher-yielding assets, such as loans, to lower-yielding assets, such as securities. Changes in national and local interest rates could be a factor. Review for increased competition in the bank's market that, perhaps, has put pressure on loan rates or entrance into new products. Also, determine if nonearning assets, such as fixed assets, real estate taken in foreclosure, or nonaccrual loans, have increased, causing interest income to fall.

## Interest expense

Interest expense consists of interest payments made by the bank on deposits and other borrowings. This expense item depends heavily upon the interest rate environment the bank faces and the strategy management follows to fund bank assets. Bank capital also affects interest expense. Since capital is a source of funds, using it to support assets reduces interest expense. Additionally, since it acts as a source of repayment, strong capital may reduce a bank's interest cost on other borrowings.

### Reference 3.12

#### EARNINGS ANALYSIS



- \* Because some interest income on some bank assets may be tax-free, (for example municipal bonds), interest income from these assets is restated to a tax equivalent (TE) amount. This is done to improve the comparability of reported income among banks.
- \*\* HTM means held-to-maturity; AFS means available for sale. See FAS 115, Accounting for Certain Investments in Debt and Equity Securities, for definitions of the terms.

If this ratio shows an upward trend, look at the trend of national or local market deposit interest rates. Also, check for changes in the way management funds bank assets. For example, has the bank moved away from using low-cost core deposits, like demand and savings deposits, to using higher-cost large CDs (\$250,000 or more), brokered deposits, and other borrowings to fund bank assets?

### Net interest margin

Net interest margin (NIM) is the difference between interest income and interest expense. It represents the spread or gross margin on the bank's loans and investments. Beyond the factors discussed previously that can influence bank interest income and expense, the size of this spread depends upon the relative responsiveness of rates received and paid on a bank's assets and liabilities to changes in market interest rates.

Among the tools banks use to help gauge the possible effects of interest rate movements on NIM are gap analyses and earnings-atrisk simulation models. These tools for judging a bank's interest rate exposure and other aspects of market risk will be discussed later in the Sensitivity to Market Risk section.

#### Noninterest income

This revenue component consists of such things as fees, service charges, and commissions. Like other revenue and expense components, it also depends upon such factors as the bank's business strategy and the market conditions in which the bank operates. For example, a decline in this item may indicate a shift away from activities that produce noninterest income. Bank management may have decided that certain fee-generating activities are not profitable given competition in the market or that they entail too much risk for the bank relative to income generated.

### Provision for loan and lease losses

As noted in the section on asset quality, the provision for loan and lease losses is the amount set aside by a bank to maintain the ALLL at a level sufficient to absorb estimated loan losses. The ALLL is increased through charges to current earnings called provisions for loan and lease losses.

Whether a high or low provision is appropriate depends upon a bank's asset quality. If loan volume is growing, loan losses and nonperforming loans are increasing, and the ALLL balance is declining or estimated losses in the portfolio exceed the bank's existing ALLL balance, then a high provision may be necessary. On the other hand, if loan growth and losses are low, nonperforming loans are small and declining, and the bank's ALLL methodology indicates that the existing loan loss reserve balance appears adequate to absorb probable loan losses, a low provision may be appropriate.

### Noninterest expenses

Noninterest expenses consist of salaries, depreciation, management fees, losses on asset sales, legal fees, and other overhead of the bank. Many of these expenses are affected by the operational efficiency or cost-effectiveness of the bank in providing deposits, loans, and other services to its customers. They may also be affected by the cost of resolving loan problems and losses from disposing of troubled assets.

If you see an increasing trend in this ratio, you may want to look at individual expense items to see which have shown large increases over time. For example, if personnel costs have risen substantially over time, you may want to look at salaries paid to see if they are in line with those paid by others in the bank's market. You also may want to compare the bank's number of employees with peer banks to see if productivity has fallen.

# Net realized securities gains, losses, taxes, and extraordinary items

These items are largely one-time gains, losses, and charges (for example, securities gains/losses, accounting adjustments, gains/losses on sales of assets, etc.). They play a role in determining the bottom-line performance of every bank. However, they should not be relied upon as a significant or continued earnings source because they normally are not sustainable.

If these items remain a significant part of your bank's earnings for long periods, review them more closely. One place to focus your review is on securities gains. It may be that your bank is selling off its high-yielding securities to record gains to boost current earnings. This is called gains trading, and it could sacrifice long-term profitability because the bank may not be able to reinvest the funds in instruments that carry a comparable interest rate.

Another concern with gains trading pertains to the source of the gains. Banks are required to segregate their securities holdings according to the purpose for which they are held—for trading, available-for-sale, and investment.<sup>19</sup> These purposes determine how the securities are to be valued for financial reporting. If the bank is registering gains by selling investment securities, then it is likely that these securities are not being held for long-term investment and, as a result, may not be valued appropriately. This may cause the bank's financial statements to be misstated, exposing the bank, directors, and others to monetary penalties.

In summary, earnings quality refers to the composition, level, trend, and stability of bank earnings. For you, the director, and bank management, bank earnings quality is a financial report card. It tells how the bank has managed its risk exposure. Where risk management is good, earnings will be consistently strong and earnings quality will be good. Where risk management is poor, the opposite will be the result. In such cases, dissecting earnings into its component parts provides insights regarding areas needing attention.

# LIQUIDITY

Directors are responsible for adopting a funds management, or asset/liability management, policy that sets liquidity risk tolerances within which it expects management to operate. Procedures for identifying, measuring, monitoring, and controlling liquidity risk should be included. The policy should state what products will be used to manage interest rate risk and liquidity and include a liquidity contingency plan in the event of unusual liquidity pressures.

Bank liquidity refers to the ability of a bank to raise cash quickly at a reasonable cost. Banks must have adequate liquidity in order to serve their customers and to operate efficiently.

Those with adequate liquidity are able to pay creditors; meet unforeseen deposit runoffs; accommodate sudden, unexpected

changes in loan demand; and fund normal loan growth without making costly balance sheet adjustments. Banks with poor liquidity may not be able to meet these funding demands and, in extreme cases, may be closed due to what is called liquidity insolvency.

Providing for a bank's liquidity needs can present many practical challenges. One reason is that funding demands may change suddenly and unexpectedly in response to the bank's financial condition or economic and other events. Thus, like the magician's coin, ample liquidity may be there one minute and gone the next. As a result, a liquidity position thought adequate for one set of circumstances may not be enough to support a bank's funding needs for another.

This section reviews bank liquidity needs. It discusses bank liquidity sources, describes monitoring and planning for bank liquidity needs, and discusses ways to analyze a bank's liquidity position.

## Sources of Liquidity

Banks can fund their operations in variety of ways:

- sell assets;
- attract short-term and long-term deposit liabilities;
- · increase short-term and long-term borrowings; and
- increase capital funds.

The way a bank meets its funding needs depends upon the cost and availability of its funding options. Costs, which include losses on forced asset sales as well as higher interest charges, depend upon such matters as asset and liability maturity mix and marketability of asset holdings. Available funding options depend largely upon the bank's overall financial condition and creditworthiness.

#### Assets

Bank assets are storehouses of liquidity. Theoretically, any asset item can serve as a liquidity source. How well a particular asset serves in this capacity depends upon the length of time it takes to dispose of it and the price the asset brings when it is sold. Assets that can be sold at a moment's notice without any appreciable loss to the bank are ideal candidates for meeting unexpected liquidity demands. As a practical matter, few bank assets meet this ideal. For example, a bank could not

quickly dispose of its building, furniture and fixtures, loans, and real estate to meet depositor demands for funds except at considerable loss.

In most instances, banks use their investment portfolio as a source of liquidity. Even securities, however, may have to be sold at a loss if an unexpected demand for funds should occur. Because of this, it is important that banks plan for future liquidity needs.

An important part of this planning process is designating the purpose served by the bank's securities holdings. Prior to 1993, banks held their securities either for investment or trading purposes. With the application of market value accounting to banks' balance sheets, banks were required to designate their investment securities as "held-to-maturity" securities (HTM securities) and "available-for-sale" securities (AFS securities).

HTM securities are those that a bank purchases with the intent (and it has the ability) to hold until maturity. Since the bank's intent is to hold its HTM securities until they mature, they are reported on a bank's balance sheet at amortized cost—the bank's cost adjusted for premium paid or discount received.

A bank may decide to hold investment securities as HTM securities for a variety of reasons. For example, if securities offer a high yield, the bank may decide to purchase and hold them until maturity simply because they provide a good return. If the securities are issued by state and local political subdivisions (for example, county and city government, water districts, school districts, etc.), the bank may purchase them as a gesture of community support. Besides return and community support motives, HTM securities purchases may play a role in the bank's liquidity management by being "pledged" or used as collateral against government deposits.

AFS securities are those that a bank purchases with the intent of selling if the need arises. AFS securities are reported on the bank's balance sheet at fair value—the value the bank could obtain for the securities at the time the balance sheet is prepared. Any difference between this value and the book value of a bank's AFS securities is reported as an unrecognized gain or loss and is shown as an adjustment to its reported capital position.

It is important to note that the federal banking agencies currently do not explicitly take into account unrecognized losses in deter-

mining capital adequacy. However, these losses can raise supervisory concerns if the liquidity position of a bank is strained and it has large unrecognized losses in its AFS securities. In the event the bank was forced to sell its AFS securities in order to meet liquidity needs, previously unrecognized losses would have to be taken, and this would negatively affect the bank's capital position.

AFS securities serve as an important source of liquidity for banks, and approximately 98 percent of U.S. banks' investment securities are held as AFS securities. Thus, when a bank needs cash for liquidity purposes, it can sell some of its AFS securities. This raises the question, "What happens if these securities are not sufficient to meet liquidity needs and the bank must sell some HTM securities?" The answer is the bank "taints" its HTM securities portfolio, and it must reclassify all of these securities as AFS securities (see Reference 3.13).

The ramification of this reclassification is that the reclassified securities must be valued at their current market price. Any unrecognized gains/losses must be taken into account in the bank's capital position, once again raising supervisory concerns if the reclassified securities have large embedded unrecognized losses within them and the bank's liquidity position is strained.

#### Liabilities

A bank can also meet its funding needs through liability management. Historically, deposits have been the predominant and lowest-cost funding source for a great majority of banks. However, banks of all sizes have seen low-cost core deposits (demand, money market, NOW, time, and savings accounts; and small denomination certificates of deposits) decline in response to increased competition for these funds from other financial service providers. Consequently, banks today depend more heavily on expensive noncore sources, such as large denomination CDs, brokered deposits, federal funds purchased and Federal Home Loan Bank (FHLB) advances, to meet their funding needs.

Federal funds are reserves held in a bank's account with its Federal Reserve Bank. Reserve Banks have paid interest on those reserves since November 2008. If a bank has more reserves in its account than is required by the Federal Reserve, it can loan these excess reserves to

### REFERENCE 3.13

# FAS 115–ACCOUNTING FOR CERTAIN INVESTMENTS IN DEBT AND EQUITY SECURITIES

This statement from the Financial Accounting Standards Board subjects banks to an element of market value accounting by requiring them to designate investment securities held for liquidity purposes as available-for-sale (AFS). Because these securities can be sold at any time to meet liquidity needs, they must be reported on bank balance sheets at fair or market value. Held-to-maturity (HTM) investment securities are reported at amortized cost.

With the exception of seven circumstances set out in FAS 115, no HTM security can be sold 90 days prior to maturity without "tainting" the entire HTM securities portfolio. Tainting means that all HTM securities would then be reported at their fair value and capital adjusted for any gain or loss from cost. This requirement would take effect over the entire HTM portfolio, even if just one of many investment securities is sold.

Because of this, it is important that banks carefully consider their liquidity needs before designating securities as held-tomaturity. The seven circumstances under which HTM securities may be sold are:

- deterioration in the issuer's creditworthiness:
- changes in tax law that eliminate or reduce the tax-exempt status of interest paid on the issuer's debt securities;
- major business combination or asset sale that requires transfer of held-to-maturity securities to maintain the bank's existing interest rate risk position or meet its credit risk policy;
- regulatory changes that modify the permissibility or the maximum level of investment in a specific security;

- changes in regulatory capital requirements that cause a bank to downsize by selling held-to-maturity securities;
- significant increase in risk weights applied to debt securities for risk-based capital purposes; and
- unanticipated, isolated, nonrecurring, and unusual events that may cause the bank to sell held-to-maturity securities.

The seven circumstances are events largely out of the control of bank management. It is important to note that selling HTM securities to meet the liquidity needs of a bank is not considered an "unanticipated, isolated, nonrecurring, and unusual" event—the last item on the list. Bank management is to plan for the bank's liquidity needs.

Additionally, for either AFS or HTM securities, banks need to determine if a decline in fair value below amortized cost is other than temporary. If it is "other than temporary impairment," or OTTI, then the amortized cost basis of the security must be written down to fair value. That write-down is reflected in earnings as a realized loss.

other depository institutions. When a bank borrows federal funds, they are fed funds purchased. Most fed funds transactions are done on an overnight basis. However, longer-term arrangements can be made. For example, there are term fed funds that generally mature between two days and one year. Typically, fed funds purchased are viewed as a short-term funding source.

The Federal Reserve discount window is a credit source that provides borrowing banks time to make orderly adjustments in their assets and/or liabilities to meet liquidity needs. Since January 2003, the discount window offers three permanent credit programs: primary, secondary, and seasonal credit.

- Under the primary credit program, healthy institutions can borrow to meet short-term liquidity needs. To qualify for the program, an institution must be at least "adequately capitalized" under the federal banking agencies' capital guidelines and have a CAMELS composite rating of 3 or better. The interest rate charged for primary credit is typically 100 basis points above the targeted federal funds rate, although the spread was temporarily reduced to as low as 25 basis points above the targeted fed funds rate in 2008 in response to market conditions.
- For those institutions that do not qualify for primary credit, secondary credit is available. Secondary credit also can be obtained to facilitate an orderly resolution of a troubled institution. Among other things, discount window staff reviews requests under this program to ensure that a borrowing institution can return to market funding. The rate for secondary credit program is 50 basis points higher than that of the primary credit program.
- The seasonal credit program is available for longer periods (generally up to nine months) to assist smaller institutions in meeting regular funding needs arising from expected movement in their deposits and loans. The interest charged for seasonal credit is set by a formula tied to short-term market rates.

Beginning in late 2007, the Federal Reserve began offering temporary discount window programs, such as the Term Auction

Facility (TAF), to address elevated pressures in short-term funding markets. Like the primary credit program, TAF credit is only available to healthy institutions. TAF credit is typically available for 28-day and 84-day terms. Other temporary programs were also introduced to address particular market issues.

A longer-term funding source is the FHLB. A bank can be an FHLB member and, if it qualifies, make use of a regional FHLB's lending programs. These programs have a wide range of maturities and interest rate terms and can be used to fund residential loans and, in the case of smaller banks, fund small business, small farm, and small agribusiness loans.

An important issue in using the liability side of the balance sheet as a liquidity management tool is the stability of a bank's liabilities. Often, fed funds, noncore deposits, and FHLB advances are available only as long as a bank is willing and able to pay for their use. Furthermore, a bank's access to these funds may be limited if its financial condition comes under question or its capital slips below satisfactory levels. Because of this, banks that rely heavily on noncore deposits and nondeposit liabilities may be particularly vulnerable to liquidity pressure in times of trouble.

Until the passage of the FDICIA, the liability side of the balance sheet, especially deposits, was an almost limitless funding source for a bank. As long as it was willing to pay higher interest rates, perhaps even above the rest of the market, a bank could attract deposits.

FDICIA, however, changed this by instilling greater depositor discipline over banks and by tying the use of purchased funds to bank capital. FDICIA increased depositor discipline by making it illegal for the FDIC to take any action that would increase insurance fund losses by protecting depositors for more than the insured portion of their deposits. Because depositors risk losing all or part of the uninsured portion of their deposits, they will be less apt to keep large uninsured amounts at banks unless they are in good financial health. As a result, banks in poor or deteriorating condition may find it more difficult to retain uninsured deposits to fund their operations and thus may be more prone to liquidity problems.

FDICIA also made it more difficult for problem banks to use purchased money, such as brokered deposits, as a funding source.

Under the law and implementing regulations, well-capitalized banks (refer to Reference 3.3 for capital definitions) that are not in troubled condition face no restrictions on their use of brokered deposits. Any insured depository institution that is less than well-capitalized is restricted in the effective yield it can pay on deposits and/or its ability to accept, renew or rollover any brokered deposit. Because of these restrictions, undercapitalized banks have fewer liability options to address liquidity needs.

FDICIA also altered the availability of the Federal Reserve's discount window to meet funding needs. Discount window advances are available to banks and other insured depository institutions to meet liquidity needs that may arise from such things as unexpectedly large withdrawals of deposits, seasonal fluctuation in deposits and loans, or exceptional circumstances. Under FDICIA, the Federal Reserve is limited on how long it may lend to undercapitalized banks without incurring any liability. Additionally, FDICIA made the Federal Reserve liable for any increased loss to the FDIC insurance fund resulting from any outstanding loans to banks five days after they have become critically undercapitalized. Consequently, some banks may find discount window borrowing a more-limited funding source.

### Capital

A bank may use sales of new equity and debt capital instruments to help meet its funding needs. However, because raising capital requires considerable planning and can be both time consuming and costly, banks seldom use capital sales as a short-term funding source. Instead, these sales play a more important role in restoring capital and reopening other funding sources to banks.

# **Establishing Policies**

As you can see, banks have a variety of balance sheet resources to draw upon to meet expected and unexpected funding needs. However, because of law and regulatory changes, some sources of liquidity may not be as readily available as they once were. Moreover, in times of trouble, some funding avenues simply may not be open.

As a result, it is essential that you and other board members establish policies that address how your bank will provide for adequate liquidity. For example, the investment policy should define how the bank's liquidity requirements are considered in determining the type and maturity of securities purchased. The asset/liability management policy should spell out asset and liability mix and maturity and set operating limits (for example, maximum loans-to-total deposits ratio, that helps preserve the bank's funding options). You also must monitor the bank's liquidity position and, with management, develop plans to meet expected and unexpected funding needs.

## Monitoring and Planning for Bank Liquidity

### Ratio Analysis

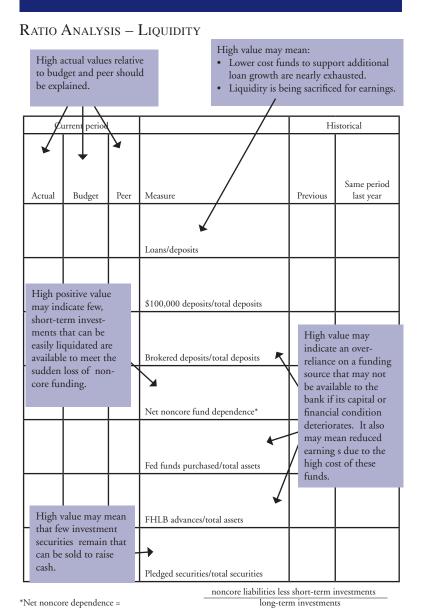
Reference 3.14 presents some liquidity measures and offers thoughts on matters to consider in reviewing your bank's liquidity. The ratios included in the reference, however, focus primarily on the bank's current liquidity position and trends in that position. It also is important to have a picture of your bank's future liquidity needs to help plan for these needs. Knowing in advance when liquidity pressure points might occur makes it possible to explore alternative ways to deal with them in advance. This advanced planning permits a more reasoned, less frantic, and less costly approach to raising funds to meet the bank's liquidity requirements. A useful tool for looking at your bank's future liquidity position is a liquidity forecast.

## Liquidity forecasts

A forward forecast of the bank's liquidity needs is helpful in ensuring the bank's funding needs are met regardless of what the future holds. Reference 3.15 provides a sample of a worksheet that might be used to forecast your bank's funding needs. This worksheet divides funding into what controls the decision regarding sources and uses of bank funding: Is it customer- or management-driven?

A cash-flow-projection worksheet describes an institution's liquidity profile under an established set of assumptions about the future. The set of assumptions used in the cash-flow projection constitutes a scenario to forecast the bank's funding needs. Often,

### Reference 3.14



This shows a bank's ability to fund its assets in the event of noncore liability loss. For large banks that rely

more heavily on noncore funding, this ratio is typically positive. For community banks that rely more heavily on core deposits, this ratio often will be negative. See pages III-5 of A User's Guide for the Uniform Bank Performance Report, March 2006, for a description of the balance sheet items that make up this ratio.

# Reference 3.15

# Example Cash Flow Projection Worksheet

	Day I	Week 1	Week 2	Week 3	Month I	Month 3	Months 4-6	Months 7-12
Customer-driven cash flows								
Consumer loans								
Business loans								
Residential mortgage loans								
Fixed assets		·					sumptic	ons
Other assets				eacn ented?	scenari	io weii-	-aocu-	
Noninterest-bearing deposits								
NOW accounts							e made i nder eac	
MMDAs					presen		iuci cac	.11
Passbook savings					•		1 .	
Statement savings					the un	-	g basis ? Are th	ev
CDs < \$100,000						•	o the m	
Jumbo CDs							rironme	
Net noninterest income					i the ba berate?	апк ор	erates o	_
Miscellaneous and other								
liabilities					assump scenar		onsiste:	nt —
Other						•	enario is	S
Subtotal					•	•	olems at	
Management-controlled cash flows			the bank, do funding sources remain available?  • Are the assumptions for each					
Investment securities					consist			
Repos, FFP, other short-term							gement	
borrowings							dity cor hed by 1	
FHLB & other borrowings					nd man			.11C
Committed lines								d
Uncommitted lines							lress fur se plans	
Other							severity	
Subtotal								
Net cash flow gap								
Cumulative position								

banks generate multiple forecasts based on different scenarios. For example, they make cash-flow projections for normal-course-of-business scenarios; short-term, institution-specific stress scenarios; and more-severe, intermediate-term, institution-specific stress scenarios. Each scenario requires assessing the likelihood of funding needs and planning for potential funding shortfalls.

Importantly, no single cash-flow projection reflects the range of liquidity sources and needs required for planning purposes. Normal-course-of-business scenarios are used to establish benchmarks for the "normal" behavior of cash flows of the institution. These scenarios are those the institution expects under normal conditions, reflecting among other things seasonal fluctuations in loans or deposit flows and expected growth in assets and liabilities.

Adverse, institution-specific scenarios simulate the institution under constrained liquidity conditions. For example, they might simulate the bank's cash flows under a bank specific event such as credit quality problems. Others scenarios might analyze liquidity issues arising from external events that somehow disrupt the payments system. Scenarios may differ regarding the severity of problems encountered. They might vary in duration from short to long. In the end, these simulations help identify the timing, nature, and magnitude of liquidity issues the bank is likely to encounter. As such, simulations done under a variety of scenarios are a useful tool for developing contingency plans to deal with funding problems that could arise.

In conclusion, a bank's liquidity position can change quickly, and directors are responsible for ensuring that their banks can effectively deal with these changes. This requires establishing policies that address the bank's liquidity needs, monitoring its liquidity position, and planning for its future funding needs.

# SENSITIVITY TO MARKET RISK

As part of the bank's management team, you are responsible for understanding the nature and level of your bank's interest rate risk and how that risk fits into your overall business strategy. You are also responsible for ensuring necessary processes are in place to identify, measure, monitor, and control your bank's interest rate exposure.

How detailed and formal these processes are depends upon the size, complexity, and risk profile of your bank.

Your responsibilities include adopting a funds management, or asset/liability management, policy. In the case of sensitivity, though, you will set risk tolerances to preserve the bank's ability to maintain earnings and protect capital in the face of changing interest rates. Management information systems should allow you to review management's sensitivity strategies so that you can be alerted to those that could compromise the bank's earnings potential. Various modeling software is available that can help directors monitor interest rate exposure.

Sensitivity to market risk reflects the degree to which changes in interest rates, foreign exchange rates, commodity prices, or equity prices can adversely affect a financial institution's earnings or economic capital. For some large institutions, foreign operations can be a significant source of market risk. Trading activities, where the institution buys and sells investment securities or foreign currencies hoping to profit on price movements, also can be a significant source of market risk for some. For most institutions, however, the primary source of market risk stems from interest rate changes and their effects on bank earnings and capital. It is this aspect of market risk that is the focus here.

Banks are large holders of financial assets. Because of this, interest rate movements can have significant effects on their financial condition and operating performance. This is due to the inverse relationship between market interest rates and market values of investment securities. For example, when market interest rates rise, the value of currently held investment securities will decline.

There have been periods in our history when market interest rates have risen after a long period of decline. In a rising rate environment, banks can experience significant market value declines in their securities portfolios. Collectively, this can amount to billions of dollars in unrecognized losses on AFS securities.

These unrecognized losses are not unimportant, even though an actual loss does not occur until the securities are, in fact, sold. Unrecognized losses matter because they indicate that bank assets are not earning current market returns and that earnings would be higher if the bank could invest its assets at higher market rates. For banks with publicly traded stock, the lost earnings translate into lower stock prices because investors are less willing to purchase stock in banks with such losses.

The unrecognized losses present a potential liquidity issue if securities must be sold to meet funding needs. They can also pose a capital adequacy issue if they are large enough to trigger bank examiner concerns regarding the bank's safety and soundness.

This section reviews your bank's exposure to interest rate changes. It discusses how interest rate changes can affect bank earnings and capital and the need to establish controls over a bank's interest rate risk-taking. Additionally, it describes tools to monitor bank interest rate exposure and discusses matters to consider when reviewing output from these tools.

# Interest Rate Changes and Their Effects on Earnings and Equity

When speaking of interest rate risk, you might hear terms such as re-pricing risk, basis risk, yield curve risk, and options risk. These are components of interest rate risk. You may read more about them in the regulatory supervisory manuals that are referenced in Chapter 6, Other Resources for Bank Directors, and are available at www. BankDirectorsDesktop.org.

These risks can affect a bank's income and equity value. Because of this, it is important that the directors and senior management establish policies and procedures to control the bank's interest rate risk exposure and establish monitoring and reporting systems to track compliance with established limits.

## Asset/Liability Management Policy

The asset/liability management (ALM) policy is the primary tool for controlling interest rate risk. Although ALM policies vary from bank to bank based on individual need, they typically:

- establish risk limits;
- delineate lines of authority for managing interest rate risk;
- set out procedures, documentation requirements, and analyses that are required prior to acquiring specified financial instruments and for managing the bank's investments;

- indicate appropriate methods for controlling the bank's aggregate interest rate exposure;
- specify the reports required by the board to monitor the bank's interest rate risk exposure and the frequency these reports are provided to the board;
- establish the process for handling policy exceptions;
- establish time frames for the board's periodic review of the ALM policy to keep it current; and
- enumerate audit requirements for the bank's ALM function.

## Monitoring bank interest rate risk

Once the board has established interest rate risk boundaries, it is important that appropriate risk measurement systems are put in place to monitor policy compliance. As previously noted, interest rate changes present risk to both bank earnings and capital. Because of this, the federal banking agencies encourage banks to put in place systems capable of measuring earnings and capital at risk.

Typically, banks use models to assess their exposure to interest rate changes. These models combine bank financial data, interest rate assumptions, behavioral assumptions for the bank and its customers, and finance concepts to judge a bank's potential interest rate exposures.

In general, models can be grouped into two broad categories based on the focus of the risk analysis they provide:

• Earnings at risk (EAR) models focus on possible changes in a bank's net interest income, noninterest income, and bottom-line profitability from interest rate movements. This risk assessment approach is sometimes referred to as a "short-term view," "accounting approach," or "earnings perspective" to judging interest rate risk.

Banks may develop their own EAR models or purchase models developed by others. The models they use vary with respect to their features and to what they will allow you to include, assume, and change in the model. Two EAR models commonly used by banks are gap analysis and income simulation.

### Gap analysis

Gap analysis was one of the first analytical methods developed to assess banks' interest rate exposure. It remains one of the most frequently used methods.

Gap analysis looks at timing differences between the re-pricing of interest rates on a bank's assets and liabilities to determine its interest rate exposure, making it a good tool for judging re-pricing risk. When these timing differences are large, the bank faces greater net income exposure than when these differences are small (see Reference 3.16).

Gap, unfortunately, is not a very good tool for judging basis, yield curve, and options risk in a bank's assets and liabilities. Accordingly, many banks use income simulation to judge their interest rate risk exposure.

#### Income simulation

Income simulations are generally computer-based models that use information on a bank's current balance sheet position and assumptions about future interest rate movements, management strategies, customer behavior, and new business and reinvestment plans to project future cash flows, income, and expenses. These projections, or simulations, can be run for a variety of interest rate scenarios and can be used to perform "what if" analyses on the effects of interest rate changes under alternative business strategies. Often, however, analyses are done for a base-case scenario—the bank under no interest rate change—and for rising and falling rate scenarios. In some instances, other scenarios may be presented (for example, a most-likely rate change scenario).

• Capital-at-risk, or economic valuation and duration models, the second category of models, focus on possible changes in the market value of a bank's assets, liabilities, and off-balance sheet items due to interest rate movements and the impact these changes have on the bank's equity capital position. This approach is sometimes referred to as a "long-

### Reference 3.16

# GAP AND NET INTEREST INCOME EXPOSURE TO CHANGING INTEREST RATES

Gap analysis is one tool used by a bank to determine the possible effects of interest rate movements on net interest income and profitability. The table below presents a sample gap calculation for two banks and shows how a bank's gap position can influence its earnings. Normally, a gap report shows a bank's interest-bearing assets and liabilities according to when they re-price—the period when the interest rate received or paid on them can change.

To simplify the analysis here, re-pricing horizons are limited to 12 months, and interest-bearing assets and liabilities are grouped and shown as totals rather than being shown individually. After the totals, interval gaps are presented. These are calculated by subtracting total rate-sensitive liabilities from rate-sensitive assets for each bucket. The cumulative gap, the next item, is the sum of the interval gaps across the buckets. The last item, RSA/RSL, is a summary measure to give the reader some perspective on the bank's interest rate exposure. It is calculated using cumulative rate-sensitive assets and liabilities across the re-pricing intervals. Most banks try to keep this ratio close to 1.0, implying a neutral interest rate risk position—an equal amount of interest-sensitive assets and liabilities re-price, resulting in interest income and interest expense changing by the same amount, leaving net interest income unchanged.

Bank 1 (\$millions)

	Re-pricing Interval				
Measure	0-30 days	31-60 days	61-90 days	4-6 months	6-12 months
Total rate-sensitive assets	\$5	\$10	\$5	\$4	\$16
Total rate-sensitive liabilities	\$10	\$20	\$10	\$10	\$10

Interval gap	\$(5)	\$(10)	\$(5)	\$6	\$6
Cumulative gap		\$(5)		\$(15)	
RSA/RSL		0.50		0.50	

### Bank 2 (\$millions)

	Re-pricing Interval				
Measure	0-30 days	31-60 days	61-90 days	4-6 months	6-12 months
Total rate-sensitive assets	\$10	\$20	\$10	\$10	\$10
Total rate-sensitive liabilities	\$5	\$10	\$5	\$4	\$16
Interval gap	\$5	\$10	\$5	\$6	\$(6)
Cumulative gap	\$5	\$15	\$20	\$26	\$20
RSA/RSL	2.00	1.67	2.25	2.63	1.50

At one year, the focus of many gap analyses, Bank 1 is negatively gapped by \$20 million—rate-sensitive liabilities exceed rate-sensitive assets by \$20 million. Bank 2 is positively gapped at one year—rate-sensitive assets exceed rate-sensitive liabilities by \$20 million.

If market interest rates rise by 200 basis points (2 percent) from 5 percent to 7 percent, interest expense for Bank 1 will rise faster than interest income, causing its net interest income to fall. Using simplifying assumptions, the amount of this fall would be  $$400,000 (0.02 \times $20 \text{ million})$ . If it is assumed that the bank's net interest income was originally \$1.2 million, net interest income would decline 33 percent to \$800,000.

The effect on Bank 2 would be just the opposite. If the bank originally had net interest income of \$1.2 million, its net interest income would rise by \$400,000 to \$1.6 million, an increase of 33 percent.

As this example shows, a bank's gap position tells you how interest rate changes may affect its net interest income—a negatively gapped bank is hurt by market interest rate increases; a positively gapped bank is helped. Conversely, a negatively gapped bank is helped by a rate fall; a positively gapped bank is hurt. Thus, a bank's gap position provides information on the vulnerability of its net interest income to interest rate changes.

term view" or an "economic approach" for determining interest rate risk.

Economic valuation focuses on possible changes in the market value of a bank's assets, liabilities, and off-balance sheet items due to interest rate movements and the impact these changes have on the bank's equity capital position. Like EAR models, banks generally use two broad categories of models to judge their equity exposure to interest rate changes: duration analysis and economic value of equity simulation.

#### Duration

Duration is a time measure that can be used to assess a bank's capital exposure to small changes in interest rates. As an analytical tool, duration analysis can provide valuable insights regarding the effects of interest rate changes on the value of a bank's assets, liabilities, and hence its capital position. However, it has a number of weaknesses, which leads many institutions to use an economic value of equity simulation model as a tool to judge their capital exposure to interest rate changes.

## Economic Value of Equity Simulation (EVE)

EVE analysis attempts to forecast the effects of interest rate changes on the value of a bank's capital. This is done by looking at the net effects of interest rate changes on the market value of a bank's assets and liabilities.

Unfortunately, many bank assets and liabilities are not actively traded on organized markets. This makes it difficult to value the assets and determine changes in their market values resulting from interest rate movements. As a result, market value changes are often estimated using present value analysis.

With present value, the market price of an income-producing asset or an expense-causing liability is equal to the present value of its discounted cash flows over the life of the asset or liability. Therefore, by making assumptions regarding cash flows and yields, EVE models can determine the effect of interest rate changes on the market value of a bank's assets and liabilities and, hence, its capital.

Like income simulations, EVE simulations draw information from a large number of sources internal and external to the bank and rely heavily on assumptions. Also like income simulations, EVE simulations can be run for a wide variety of business strategies and interest rate scenarios, and simulation results are generally presented to directors and senior management in summary form. The content and the format of these summaries depend upon what the board needs to judge the bank's risk profile. Reference 3.18 presents an example of a summary report you might see.

As the designations "short-term" and "long-term" denote, both EAR and EVE models should be used to obtain a complete picture of a bank's interest rate risk exposure.

Model results often are presented to the boards of directors and senior management in summary tables and graphs in time frames spelled out by the ALM policy. Reference 3.17 presents one type of summary report you might see. In the report, the effects of a 200 basis point increase and decrease in interest rates on net interest income is compared with a no change, base case. Columns 2, 3, and 4 show how much net interest income changes under the different rate scenarios.

Because model results are in summary form, you may not be aware of the many complexities associated with their use. This causes

## Reference 3.17

### EARNINGS AT RISK SIMULATION

	Net interest income change			
Period	No rate change (2) Interest rates rise change (2) Interest rates fall basis points (3) basis points (4)			
Quarter 1	\$400	\$(20)	\$20	
Quarter 2	\$200	\$(20)	\$20	
Quarter 3	\$500	\$(80)	\$100	
Quarter 4	\$600	\$(90)	\$120	
Total	\$1,700	\$(210)	\$260	

## Reference 3.18

# ECONOMIC VALUE OF EQUITY SIMULATION (\$THOUSANDS)

Interest rate change	Market value of equity	Percent change in market value
-200 basis points	\$2,512	(18.77)
-100 basis points	\$2,819	(8.87)
Base case—no change	\$3,093	0
+100 basis points	\$3,348	8.25
+200 basis points	\$3,601	16.43

the whole interest rate risk measurement process to be viewed as a "black box." Data are input into the black box, i.e., the model, where something happens. After blinking of lights and grinding of gears, results come out.

However, models make use of a lot of financial data, rely on many assumptions, and utilize innumerable finance theories to measure a bank's interest rate risk. If there were ever a process where the old computer maxim "garbage in, garbage out" is particularly apropos, it is the interest rate risk measurement process. Therefore, if you are to have confidence in the interest rate risk exposure information you are presented, it is important that you become familiar with your bank's models, the assumptions used in them, and the accuracy of their output.

Although no one expects you to be a finance wizard or a modeling expert, it is important that you are generally familiar with the capabilities of the models your bank uses and that you are satisfied that they meet the bank's needs. As one expert put it, make the "black box" a "glass box." By doing so, you can gain perspective on the suitability of models used by your bank and your bank's ability, given its level of expertise, to effectively use them.

In summary, banks use models to assess their earnings and capital vulnerability to changes in interest rates. EAR models provide a short-term perspective on a bank's net interest income and bottomline profitability. EVE models provide a long-term view on its capital exposure. The two approaches to risk measurement complement one another and can be viewed as two sides of the interest rate risk coin.

### **Endnotes**

<sup>5</sup>Large or internationally active banks are defined as banks with \$250 billion or more in total assets or \$10 billion in foreign exposure as defined in the capital regulation. Other banks may opt-in to use the advanced approaches regulations. Additionally, a bank's primary federal supervisor may exclude a bank from the Advanced Approaches capital framework.

<sup>6</sup>To be well-capitalized, a bank must meet the ratio tests AND not be subject to a regulatory written agreement, order, capital directive, or prompt corrective action directive calling for maintenance of a specific capital level.

<sup>7</sup>A leverage ratio of 3.0 percent or greater is allowed if the bank is rated composite 1 under the CAMELS rating system in the most recent examination of the bank and is not experiencing or anticipating significant growth.

<sup>8</sup>Less than 3 percent if the bank is rated composite 1 in its most recent ROE and is not experiencing or anticipating significant growth.

<sup>9</sup>For critically undercapitalized banks, this ratio is defined as core capital plus cumulative perpetual preferred less all but certain intangible items, to total assets.

<sup>10</sup>Lynn D. Seballos and James B. Thompson, "Underlying Causes of Commercial Bank Failure in the 1980s," *Economic Commentary*, (Cleveland: Federal Reserve Bank of Cleveland, September 1, 1990), p. 3. Fred C. Graham and James E. Homer, "Bank Failure: An Evaluation of the Factors Contributing to the Failure of National Banks," in *The Financial Services Industry in the Year 2000: Risk and Efficiency – Proceedings of a Conference on Bank Structure and Competition May 11-13, 1988*, (Chicago: Federal Reserve Bank of Chicago, May 1988), pp. 408-413.

<sup>11</sup>Commercial Bank Examination Manual, (Washington, D.C.: Board of Governors of the Federal Reserve System, March 1994, updated through October 2008), Section 2040.1, Loan Portfolio Management.

<sup>12</sup>Federal Reserve System SR Letter 06-17, *Interagency Policy Statement on the Allowance for Loan and Lease Losses.* December 13, 2006.

<sup>13</sup>Financial Accounting Standards Board (FASB) Statement of Financial Accounting Standards (FAS) Number 5, Accounting for Contingencies, and Number 114, Accounting by Creditors for Impairment of a Loan.

<sup>14</sup>Federal Reserve System SR Letter 06-17, *Interagency Policy Statement on the Allowance for Loan and Lease Losses*, December 13, 2006, Attachment 1 re: Loan Reviews.

<sup>15</sup>Robert H. Fabian, "Some of the Legal Responsibilities of Bank Directors," *The Bank Director*, ed. Richard B. Johnson, (Dallas: SMU Press, 1974), p. 66.

<sup>16</sup>FDICIA, codified as 12 CFR 363, Annual Independent Audits and Reporting Requirements, is generally applicable to banks, thrifts, and holding companies with at least \$500 million in assets.

<sup>17</sup>Bank Failure, An Evaluation of the Factors Contributing to the Failure of National Banks, (Washington, D.C.: Office of the Comptroller of the Currency, June 1988), p. 1.

<sup>18</sup>This section draws heavily on information taken from A User's Guide for the Uniform Bank Performance Report, (Washington, D.C.: Federal Financial Institutions Examination Council, March 2004). For an alternative presentation on earnings performance, see Section I of that guide.

<sup>19</sup>See FAS 115, Accounting for Certain Investments in Debt and Equity Securities, for definitions of the terms.

# REGULATORY COMPLIANCE

irectors are responsible for providing their banks with a compliance management program that includes preventive, detective, and corrective measures to ensure compliance with banking laws and regulations. Preventive measures are those that help prevent violations from even occurring, which can include:

- policies;
- procedures;
- internal controls; and
- training.

Detective measures are those that identify undesirable events that have occurred, such as deliberate or accidental errors, or violations of law. Detective measures can include:

- audits or other operational reviews;
- active board and management oversight; and
- risk monitoring and management information systems (MIS).

Corrective measures prescribe actions to take in the event that errors or violations are found. Corrective measures can include:

- corrective action plans that assign responsibility for correction to a specific individual or group, with a specific due date for completion, and a requirement for status reports showing progress of corrective action; and
- quality assurance or control processes that identify and correct conditions that led to the error or violation.

A compliance program is necessary, as banking is a heavily regulated industry. There are two main reasons for this. One is that banks offer deposit products insured by the federal government through the

FDIC. The other, as explained in Chapter 1, is that banks put these insured funds at risk through the loans and investments they make.

Regulations and regulators are necessary in order to protect the depositors' money as well as the federal deposit insurance fund. Banking laws and regulations, among other things:

- address matters such as who owns, controls, and manages banks;
- delineate the services banks can provide;
- limit the activities in which a bank can engage (e.g., taking deposits, making loans, and activities inciden tal to both);
- specify minimum capital levels for a bank;
- limit the maximum amount of capital invested in bank premises;
- limit the size of loans to a single borrower and to insiders;
- require regulatory approval of acquisitions, mergers, and new branch locations;
- prohibit discriminatory lending; and
- require uniform disclosures regarding loan and deposit products.

Failure to establish a compliance program can result in directors being held personally liable, perhaps subjected to monetary penalties, or other sanctions (see Chapter 5). To fulfill this responsibility, you must have a basic understanding of the regulatory framework under which your bank operates and be knowledgeable about the rules and regulations to which it must adhere. The discussion that follows helps build this knowledge.

## The Director's Responsibility for Regulatory Compliance

As a director, you are ultimately responsible for your bank's regulatory compliance. However, you need not be an expert on bank regulation to carry out this responsibility.

Instead, you should adopt policies and procedures for your management team to follow in identifying and implementing the necessary controls and processes that will result in regulatory compliance. This

includes training bank personnel on how to comply with the laws and regulations within their specific duties. You should receive periodic reports that address the bank's level of compliance.

While you do not need to be a legal expert, there are some laws with which you should be familiar, as they may:

- apply directly to you as a director;
- carry signifigant penalties for noncompliance;
- provide you with knowledge to ask questions and evaluate responses.

Reference 4.1 below highlights some of these laws and regulations, their purposes, and compliance tips. Because of their importance, you should have some familiarity with these, as well as any rulings your bank's primary supervisor may have issued on them. This basic information will help you spot potential trouble areas that your bank may need to address to ensure its regulatory compliance.

# Reference 4.1

# Laws and Regulations of Particular Interest to Directors

Law/Regulation	Compliance Reminders
The Bank Secrecy Act/Anti-Money Laundering (BSA/AML), Federal Reserve Regulation H (12 CFR 208.62 and 208.63; 31 U.S.C. 5311 et seq.; and 31 CFR Part 103)  Assigns specific responsibilities to banks to know their customers and to detect and report large currency transactions and suspicious activities. These responsibilities are important to ensure that banks are not used as intermediaries for transferring funds obtained from criminal activities or to hide the transfer of money derived from those activities. The BSA also sets out record keeping requirements in order to provide a "paper trail" that law enforcement can use, if necessary.	Banks must have a written BSA/AML compliance program that includes these four components:  1. internal controls to assure ongoing program compliance;  2. periodic independent testing for BSA/AML compliance (a sound practice is to do this every 12-18 months, depending on the bank's level of risk);  3. a designated individual responsible for coordinating and monitoring day-to-day compliance; and  4. training for appropriate personnel.  A Customer Identification Program (CIP) must be included as part of the BSA/AML compliance program.  The board of directors must approve the BSA/AML program, with the approval noted in board minutes.  Currency Transaction Reports (CTRs) are required for cash transactions (deposit, withdrawal, exchange or other payment or transfer) greater than \$10,000. Customers meeting certain criteria may be exempted from such reporting.

Suspicious Activity Reports (SARs) are required with respect to transactions that are inconsistent with what is known about a customer and that have no identifiable business purpose or support.

The board of directors must be notified of SAR filings.

Information in SARs is confidential and may not be divulged to people outside of the bank or to people who may be the subject of a SAR.

Account opening procedures, also known as customer due diligence, are critical to a bank's ability to identify suspicious activity. Those procedures should be designed to obtain necessary information by which to effectively and efficiently serve the customer while giving you the ability to know when a transaction does not make business sense for the customer.

### Management Official Interlocks, Federal Reserve Regulation L (12 CFR 212)

Prohibits common directors and management officials among unaffiliated institutions in the same community to maintain competition between institutions.

There are limits on your service as a director or management official at other unaffiliated financial institutions and bank holding companies, particularly if:

- your bank has assets greater than \$2.5 billion;
- any office of your bank is located within the same large metropolitan area as the other institution or one of its offices; or
- any office of your bank is located within 10 miles of an office of the other institution.

### Loans to Executive Officers, Federal Reserve Regulation O (12 CFR 215)

Places limits on loans to insiders and prevents bank insiders (directors, management officials, and principal shareholders) from obtaining credit on more favorable terms than other customers of their bank.

Combine credit extensions to insiders with those of their immediate family and businesses to make sure that loans to insiders stay within lending limits specified in the regulation.

There is a limit on loans to a single insider and an aggregate limit on total loans to all insiders.

Overdrafts are extensions of credit and are specifically addressed by the regulation.

Be alert to loan transactions where insiders may receive, directly or indirectly, some benefit. Be mindful that an insider's endorsement, or guarantee, can be considered an indirect extension of credit to the insider.

#### Privacy of Consumer Financial Information, Federal Reserve Regulation P (12 CFR 216)

Governs treatment of consumer, nonpublic, personal information by financial institutions. Requires institutions to provide customers with a notice of their privacy policies and practices. Prohibits institutions from sharing nonpublic, consumer/customer financial information with nonaffiliated third parties unless the institutions meet certain disclosure and opt-out requirements and the consumer/customer has not opted out of the disclosure.

The regulation requires an annual notice to customers describing the bank's policy on sharing customer information with nonaffiliated third parties.

If your bank shares customer information with nonaffiliated third parties, then it must also provide customers with the ability to prevent their information from being shared, also known as the ability to "opt out."

Make sure the bank's policies regarding its information-sharing are consistent with its current sharing practices.

Fair and Accurate Credit Transaction Act (FACTA) amendments to Fair Credit Reporting Act, Federal Reserve Regulation V (12 CFR 222)

Deals with many customer information matters such as data accuracy, privacy, customer rights disclosures, records destruction, and customer information-sharing. An important aim is to address identity theft. The regulation requires a written, board-approved policy to address matters covered by FACTA.

The policy should take into account, and be consistent with, other programs and policies of the bank, e.g., information security program, Bank Secrecy Act program.

The bank must perform and document a risk assessment to determine if it provides accounts covered by FACTA.

A system must be implemented to identify red flags that may indicate a possible compromise of customer data and outline the steps bank staff are to take in response to the red flags.

The bank must also have a process to notify credit reporting agencies of any address discrepancies on credit reports that it may have noted based on its own records or information.

### Transactions with Affiliates, Federal Reserve Regulation W (12 CFR 223)

Implements sections 23A and 23B of the Federal Reserve Act, establishing certain restrictions on and requirements for transactions between a member bank and its affiliates. The intent is to prevent misuse of bank resources resulting from non-arm'slength transactions with affiliates. Your bank cannot buy a low-quality asset from an affiliate, except under very limited circumstances.

Be alert to parent bank holding company expenses and overdrafts paid by the bank, because such payments could constitute illegal, unsecured credit to the holding company.

Be sure the bank receives its share of refunds and benefits from joint tax filings.

Tax payments to the parent should not be made too far in advance of when they are due, or they may be considered a loan to the parent company.

Watch for transactions between the bank and firms controlled by insiders to ensure that their terms are no less favorable than terms the bank would receive on similar transactions with an outsider.

Management fees paid by the bank to its parent bank holding company should be appropriate to the services received.

Asset purchases, rental agreements and lease contracts between the bank and firms owned by insiders must be on equivalent terms to those with outsiders.

Maintain documentation to demonstrate that all transactions with insiders and affiliates take place at market value.

### Community Reinvestment, Federal Reserve Regulation BB (12 CFR 228)

Implements the Community Reinvestment Act (CRA), which encourages banks to meet the credit needs of their communities, including low- and moderate-income (LMI) neighborhoods. The bank's most recent CRA rating is public information and must be made available to the public upon request. The assessment area defined by the bank is the geographic area in which the bank's CRA performance will be judged. It may not be the same thing as the bank's market or trade area. It is a key to the evaluation of the bank's record of meeting community credit needs.

Assessment areas must:

- include whole geographic areas (e.g., counties, census tracts or metropolitan statistical areas (MSAs));
- · not illegally discriminate; and
- not arbitrarily exclude low- or moderate-income areas (i.e., no "redlining").

Review the bank's assessment area to make sure it includes all the bank's branches, deposit-taking ATMs and a substantial portion of its loans.

Perform a self-assessment of your CRA performance to avoid surprises at your next CRA examination.

Notice of Change in Directors and Senior Executive Officers, Federal Deposit Insurance Act Notices, Financial Institutions Reform, Recovery, and Enforcement Act Notices (12 USC 1831i (a) and Federal Reserve Regulation Y, 12 CFR 225.71 et seq.)

Requires notification to the appropriate banking regulator of senior management changes at banks in troubled condition. The intent is to prevent changes that are detrimental to the bank.

Applies to banks that are deemed to be in troubled condition as defined in Federal Reserve Regulation Y, 12 CFR 225.71.

Requires a 30-day prior notice for:

- any changes to the board of directors; or
- employment of new senior officers.

# Golden Parachutes and Indemnification (12 USC 1828(k), and 12 CFR 359)

Limits severance payments and indemnification in order to safeguard bank assets; limits rewards to institution-affiliated parties who may have contributed to a bank's less-than-satisfactory condition or who may have otherwise harmed the bank. The limitation on indemnification applies to all banks. The limitation on severance payments applies only to banks that are in a troubled condition as defined in Federal Reserve Regulation Y, 12 CFR 225.71.

Generally, a bank cannot indemnify an insider against the liability or legal expenses of an administrative proceeding by the bank's regulator.

Indemnification for the payment of civil money penalties is not permitted.

Golden parachute payments or agreements cannot be made without the prior written approval of the bank's primary federal regulator and the FDIC. A state member bank that is in a troubled condition would need to consult with its Reserve Bank before making or entering into any agreement to make severance payments

For additional information on golden parachute payments, please see the Federal Reserve Board's SR 03-6. Change in Bank Control Act (12 USC 1817(j)); Bank Holding Company Act (12 USC 1841 et seq.); and Federal Reserve Regulation Y (12 CFR 225)

Requires shareholders to receive prior regulatory approval before taking a controlling position in banks and bank holding companies.

Stock transactions, such as treasury stock redemptions, may take a share-holder's ownership over 10 percent of the outstanding shares of the bank or its parent bank holding company, which may require a change-in-control notification.

Prior notification is required, unless otherwise grandfathered under the regulation, if a share purchase would take a shareholder's ownership to 25 percent or more of the bank's or its parent bank holding company's voting shares.

A transaction that takes a shareholders' ownership over 10 percent of any voting class of stock may require filing a notification.

A shareholder's ownership may be combined with others, as indicated in the regulation (e.g., immediate family members), in determining the need for a notification.

Placing 10 percent or more of bank or holding company stock in a trust or shareholder agreement may raise control or bank holding company issues and require filings under the Change in Bank Control Act or the Bank Holding Company Act.

If the bank or its bank holding company is being sold, terms of purchase options may give buyers control of the bank or company and require prior notification.

#### **Lending Limits**

Promotes diversification in a bank's loan portfolio by limiting loans to a single, noninsider borrower.

The general lending limit to a single borrower for national banks is 15 percent of their capital and surplus plus an additional 10 percent of capital and surplus if the loan is fully secured by readily marketable collateral.

Limits for state banks vary, depending upon the state of charter. Often, they are set from 15 percent to 30 percent of a bank's capital and surplus. State banking statutes should be consulted for specific lending limit information and for the method of calculating the limit.

Be cognizant of the bank's statutory lending limit and its internal lending limits.

Loans and investments that approach these limits represent significant exposure of the bank's capital and should receive scrutiny.

Loans in excess of the legal lending limit may expose approving directors to potential liability.

Overdrafts are loans to be included in the calculation of a borrower's legal lending limit.

Banks often establish a lower, internal or "in-house" lending limit to further diversify their credit risk and to avoid potential legal lending limit violations.

The level at which the board of directors sets the internal limit depends upon its risk tolerance. At many banks, the board sets the in-house limit at 50 percent or less of the bank's legal lending limit.

# Office of Foreign Asset Control (OFAC)

The Office of Foreign Assets Control (OFAC) is an office within U.S. Treasury that administers laws that impose economic and trade sanctions against hostile targets to further U.S. foreign policy and national security objectives.

Make sure that bank has an OFAC compliance program, staff is trained on the program, the board reviews the program annually, and internal audit periodically reviews the program.

Of particular note regarding OFAC compliance, the program should have a process that ensures the bank has an updated list of specially designated individuals and other blocked persons.

The OFAC program should include steps for reporting blocked transactions to OFAC within 10 days after the occurrence.

#### Safeguarding Customer Information, Federal Reserve Regulation H (12 CFR 208.3(d)(1))

Requires banks to protect customer information by:

- implementing a comprehensive written information security program that ensures the security and confidentiality of customer information:
- protecting the security and integrity of this information;
- providing safeguards against the bank's unauthorized access or use.

The information security program is to identify internal and external risks associated with information technology systems and activities; ensure the implementation of risk-mitigating controls; and establish periodic tests of key controls, systems, and procedures.

Periodically test the key controls set out in the bank's information security program.

Supervisory guidance on controlling information security risks extends to third-party service providers.

## Equal Credit Opportunity, Federal Reserve Regulation B (12 CFR 202)

Prohibits lenders from discriminating against credit applicants, establishes guidelines for gathering and evaluating credit information, and requires written notification when credit is denied.

Make credit decisions based on objective information regarding a borrower's ability to pay, rather than any of the "prohibited bases."

Generally, notify loan applicants of action taken within 30 days after receiving a completed application.

On credit primarily for the purchase or refinancing of a dwelling occupied or to be occupied by the applicant as a principal residence, and secured by the dwelling, collect the government monitoring information regarding applicant ethnicity, sex, marital status, and age.

#### Loans in Special Flood Hazard Areas, Federal Reserve Regulation H (12CFR 208.25)

Implements the National Flood Insurance Act, which makes federally backed flood insurance available to owners of improved real estate or manufactured (mobile) homes located in high flood risk areas. Banks may not make, increase, extend, or renew a loan on improved property located in a flood hazard area and in a "participating" community, unless the improvements are covered by flood insurance.

Failure to comply may lead to civil money penalties and potential enforcement action.

#### Truth in Lending, Federal Reserve Regulation Z (12 CFR 226)

Prescribes uniform methods for computing the cost of credit, for disclosing credit terms, and for resolving errors on certain types of credit accounts.

Also places restrictions on "high cost" and "higher-priced mortgage loans."

Inaccurate disclosure of credit terms, particularly understating the annual percentage rate of interest or the finance charge, can result in reimbursements to the customer.

Reg. Z requires certain pieces of information that must be disclosed to a borrower prior to extending credit:

- annual percentage rate (APR);
- · term of the loan; and
- total costs to the borrower.

Requires escrow accounts on "higher-priced mortgage loans."

# Real Estate Settlement Procedures (RESPA), HUD Regulation X (24 CFR 3500)

Implements HUD's Real Estate Settlement Procedures Act (RESPA), which covers consumer real estate loans secured with a mortgage placed on a one-to-four family residential property. These include most purchase loans, assumptions, refinances, property improvement loans, and equity lines of credit.

Within three days of receiving a purchase-money mortgage loan application, the lender must furnish the applicant with a good faith estimate (GFE) of loan closing costs, a copy of HUD's Special Information Booklet, and a mortgage servicing disclosure statement.

RESPA prohibits a person from giving or accepting anything of value (i.e., "kickbacks") for referrals of settlement service business related to a mortgage loan.

It also prohibits a person from giving or accepting a charge for services that are not performed.

Your duty as a director requires that you establish policies to achieve regulatory compliance and monitor results to make sure management and bank staff follow them. Failure to perform this duty could expose your bank to loss and both you and the bank to supervisory sanctions and monetary penalties.

# WHEN THINGS GO WRONG

aving discussed the various areas of examination, we'll now cover what happens in the event the bank examiners find problems in a bank. Banks that have significant problems or shortcomings may be exposed to the following consequences:

## Violations of banking laws or regulations

Violations may be indicative of a pattern or practice and are considered potential areas of concern, particularly if the violations are either numerous or repetitive. The pattern or practice could lead to escalated regulatory supervision and the other consequences listed below.

## Monetary cost

This can come from employee time spent on file searches requested by regulators trying to determine the extent of a violation or from hiring a consultant to fix a problem. Other monetary costs can include civil money penalties (CMP) and reimbursements or restitution to customers.

#### Enforcement actions

The Federal Reserve may choose to take actions to correct specific, significant issues at a bank, such as violations of law, rules or regulations, unsafe or unsound practices, breaches of fiduciary duty, and violations of final orders. Actions typically specify what the bank needs to do to correct identified problems, such as improving lending practices, instituting proper policies and procedures, or correcting specific violations of law.

# • Reputational risk/damaged reputation

Failure to comply with laws and regulations can affect a bank's reputation in a couple of ways. First, violations often involve some kind of error requiring contact and disclosure with customers. If errors occur frequently, customers will soon have the word out to the community that the bank does not operate very effectively.

Second, if the violations necessitate the use of a formal enforcement action, those actions are public information, disseminated by the regulators and available on their respective regulatory websites. Again, news of a bank's inefficient operations may be widely communicated and known to the public via customer word of mouth.

In most cases, issues identified by the examiners are resolved through discussions with bank management or management's response to the report of examination. For more severe issues, the banking regulators use the aforementioned enforcement actions. The terms "administrative action" or "supervisory action" are often used synonymously with "enforcement action."

Enforcement actions are used when something more than routine examination follow-up is considered necessary to address a bank's issues, such as violations of law, rules, or regulations; unsafe and unsound practices; and breaches of fiduciary duty. Actions may be formal, meaning they are legally enforceable in the federal courts, or informal. Informal actions include:

- board resolutions:
- commitment letters; and
- memoranda of understanding.

Informal actions are the least severe of the various supervisory actions available to regulators. They are usually used for issues that, while considered substantive, can be corrected relatively easily due to management's cooperation and ability to effect corrective action.

Formal actions are for more severe problems, including failure to comply with informal enforcement actions. Formal actions include:

- written agreements;
- cease and desist orders (C&D);
- capital directives;
- prompt corrective action directives;

- safety and soundness directives;
- civil money penalties (CMPs); and
- prohibition and removal actions.

Should examiners discuss enforcement action with you, be assured that they have serious issues with the bank warranting your full attention. As with any other topic covered by examiners, ask questions until you fully understand their concerns. For example:

- What is the problem?
- What is the root cause of the problem?
- Why is an enforcement action necessary?
- What is expected of you and your management team in effecting corrective action?

That last point is probably the most important one. Failure to adequately respond to an enforcement action can result in the escalation of enforcement actions to more severe actions, such as CMPs. CMPs are typically levied against banks or responsible individuals for egregious or repetitive conduct, which can include ineffective corrective action taken in response to an enforcement action.

For more information about enforcement actions, please refer to any of the examination handbooks mentioned in Chapter 6, Other Resources for Bank Directors, and available at <a href="https://www.BankDirectorsDesktop.org">www.BankDirectorsDesktop.org</a>.

# OTHER RESOURCES FOR BANK DIRECTORS

his booklet highlights many matters that directors might consider in governing their banks. It includes discussions on bank supervision and regulation and points out common regulatory compliance pitfalls. Additionally, it discusses bank financial soundness, covering topics on capital, asset quality, management, earnings, liquidity, and sensitivity to market risk and suggests areas to consider in judging bank performance.

Besides this booklet, there are other resources that you may want to consult to further your study of banking. For example, there are many educational programs and publications designed to help directors better supervise their banks. Banking associations at the national and state levels sponsor seminars and training sessions for interested directors. Additionally, these associations often have information on other training opportunities open to directors. There also are numerous publications and webinars that can help directors supplement or build their banking knowledge. A sampling of these is grouped together in the next sections.

# Bank Director's Desktop

Bank Director's Desktop is the Federal Reserve's home page for director training and resources that can be accessed free at:

www.BankDirectorsDesktop.org

From this site, you may access:

- Training for Bank Directors—an online course that covers director duties and responsibilities with an ability to dig deeper into certain topics of interest. The course is the successor to our Insights for Bank Directors course.
- Basics for Bank Directors—a book by the Federal Reserve Bank
  of Kansas City that covers the fundamentals of being a bank
  director and serves as the basis for Training for Bank Directors.

 Resources for Bank Directors—other resources that can help you in your career as a bank director, such as supervision manuals and links to relevant websites.

# **Bank Supervision Manuals**

The most definitive information on matters to consider in evaluating a bank can be found in the examination manuals used by the banking agencies. The manuals used by examiners at the federal banking agencies are available to the public and can be ordered directly from the agencies or their representatives.

Additionally, they can be obtained electronically from the agencies at their websites:

- Comptroller of the Currency
  - » www.occ.gov → Publications → OCC Supervisory Policies and Procedures → Select the appropriate manual
- Federal Reserve
  - » www.federalreserve.gov → Banking Information and Regulation → Supervision → Supervision Manuals
- FDIC
  - » www.fdic.gov → Regulations and Examinations → Bank Examinations → Select the appropriate manual

The manuals are lengthy and discuss matters in more detail than typically needed by directors. However, you can access them electronically to search for key words and phrases on topics in which you have an interest. Regardless of how you access them, they can be invaluable reference tools in helping you understand matters that may come before the board.

# **Banking Associations**

Banking associations are another important educational resource. Many provide seminars, classes, webinars, online courses, and written materials that are invaluable to bank directors and banking personnel in learning about bank operations and regulatory/supervisory matters. Usually the associations' offerings can be

found by clicking "Education" on their home page. The "Events" section is another handy place to look.

# Classroom Training

Banking associations, consultants, and supervisory agencies provide many services and programs that are of great value to outside directors. One of these programs, offered by a number of the Federal Reserve Banks, is Basic Training for Bank Directors. This is a half-day program based on this book and offered on-site at your bank. Directors wanting this training should check with the Reserve Bank in their District. The training is targeted to directors of state chartered banks that are members of the Federal Reserve.

#### Director Guides

The resources included here summarize matters of importance to bank directors, differing in the emphasis given to individual topics.

Director's Corner:

www.fdic.gov → Regulations and Examinations → Resources for Bank Officers and Directors → Director's Corner

• Pocket Guide for Directors

www.fdic.gov → Regulations and Examinations → Resources for Bank Officers and Directors → Pocket Guide for Directors

• The Director's Book

www.occ.gov → Publications → Tools and Guidance for Bankers and Directors → The Director's Book—The Role of the National Bank Director

• The Director's Primer: A Guide to Management Oversight and Bank Regulation

 $www.frbatlanta.org \rightarrow Banking Information \rightarrow Director's$  Primer

 Detecting Red Flags in Board Reports: A Guide for Directors (also available in pocket guide)  $www.occ.gov \rightarrow \text{Publications} \rightarrow \text{Tools}$  and Guidance for Bank Directors  $\rightarrow$  Detecting Red Flags in Board Reports

• Banking Regulation: Its Purposes, Implementation, and Effects

 $www.KansasCityFed.org \rightarrow Banking Supervision \rightarrow Banking Publications \rightarrow Banking Regulation.$ 

#### Other websites

- Conference of State Bank Supervisors http://www.csbs.org
- Federal Financial Institutions Examination Council http://www.ffiec.gov
  - → Uniform Bank Performance Report home page—http://www.ffiec.gov/ubpr.htm

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