

OPERATIONAL RISK MANAGEMENT MODULE



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CHAPTER	OM-A:	Introduction

OM-A.1 Purpose

Executive Summary

- OM-A.1.1 The Operational Risk Management Module sets out the Central Bank of Bahrain's ('CBB's') rules and guidance to <u>Conventional Bank licensees</u> operating in Bahrain on establishing parameters and control procedures to monitor and mitigate operational risks. The contents of this Module apply to all conventional banks, except where noted in individual Chapters.
- OM-A.1.2 This Module provides support for certain other parts of the Rulebook, mainly:
 - (a) Principles of Business; and
 - (b) High-level Controls.

Legal Basis

- **OM-A.1.3** This Module contains the CBB's Directive (as amended from time to time) relating to Operational Risk Management and is issued under the powers available to the CBB under Article 38 of the Central Bank of Bahrain and Financial Institutions Law 2006 ('CBB Law'). The Directive in this Module is applicable to all <u>conventional bank licensees</u> (including their <u>approved persons</u>).
- OM-A.1.4 For an explanation of the CBB's rule-making powers and different regulatory instruments, see Section UG-1.1.

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OM-A.2 [This Chapter was deleted in October 2007]



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OM-A.3 Module History

- OM-A.3.1 This Module was first issued in July 2004 as part Volume one of the CBB Rulebook (Volume one). All directives in this Module have been effective since this date. Any material changes that have subsequently been made to this Module are annotated with the calendar quarter date in which the change was made; Chapter UG-3 provides further details on Rulebook maintenance and version control.
- OM-A.3.2 When the CBB replaced the BMA in September 2006, the provisions of this Module remained in force. Volume 1 was updated in October 2007 to reflect the switch to the CBB; however, new calendar quarter dates were only issued where the update necessitated changes to actual requirements.
- OM-A.3.3 The most recent changes made to this Module are detailed in the table below:

Summary of Changes

Module Ref.	Change Date	Description of Changes
OM-5.1	01/04/05	Physical security measures.
OM-4.2	01/10/05	Succession planning for locally incorporated banks.
OM-5.1	01/10/05	Clarification of security manager role for smaller banks.
OM-B & OM-1.2	01/04/06	Minor amendments concerning roles of Board and management.
OM-5.1.15-24	01/04/06	New security requirements for ATMs and reporting of security related complaints.
OM-A.2.1-6	01/10/07	Purpose (expanded)
OM-A.2.1-6	01/10/07	Key Requirements (deleted)
OM-2.1-2.2 & 2.4	01/10/07	Relocation of Succession Planning Requirements from OM-4
OM-5.1-OM-5.9	01/10/07	Business Continuity Planning (expanded)
OM-7	01/10/07	Books and Records Chapter transferred from Module GR
OM-8	01/04/08	Basel II Qualitative Operational Risk Requirements
ОМ	01/2011	Various minor amendments to ensure consistency in CBB Rulebook.
OM-A.1.3 and OM- A.1.4	01/2011	Clarified legal basis.
OM-7.1.4	04/2011	This Paragraph was deleted as Ministerial Order 23 does not apply to CBB licensees.
OM-7.3.4	04/2011	Clarified retention period of records for promotional schemes.
OM	07/2011	Various minor amendments to clarify Rules and have consistent language.
OM-2.4	07/2011	Amended CBB reporting requirements regarding succession planning.
OM-3.1.7	07/2011	Paragraph deleted as no longer applicable since standard conditions and licensing criteria document has now been incorporated as part of Volume 1.
OM-6.2	10/2011	Added new Section on internet security.
OM-7.1.7	10/2011	Corrected typo.
OM-A.1.3	01/2012	Updated legal basis.
OM-2.1.4	01/2012	Corrected cross reference.
OM-3.2.2	04/2012	Deleted last sentence of Paragraph as it repeats the requirement under Paragraph OM-3.3.1
OM-6.2.2	04/2012	Clarified penetration testing interval for internet security.
OM-1.1.4	10/2012	Amended to reflect updated version of Basel Committee document.
OM-3.2.6, OM- 5.2.1, OM-5.4.8, OM-8	10/2012	Amended to reflect the Basel June 2011 paper on Principles for the Sound Management of Operational Risk.



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OM-A.3 Module History (continued)

OM-A.3.3 (continued)

Summary of Changes

Module Ref.	Change Date	Description of Changes
OM-6.2	07/2013	Amended reporting requirements related to internet security measures.
OM-6.2.1	10/2013	Amended Rule to apply to all banks.

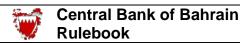
Evolution of the Module

OM-A.3.4 [Deleted in October 2007 updates]

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CHAPTER	OM-B:	General Guidance and Best Practice

OM-B.1 This Section was moved to Chapter OM-1.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-1:	International Guidance and Best Practice

OM-1.1 Guidance Provided by International Bodies

Guidance Provided by other International Bodies

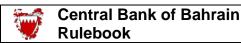
OM-1.1.1 The papers below provide guidance which promotes best practice and can be generally applied by all licensees to their activities.

Basel Committee: Framework for Internal Controls Systems in Banking Organisations

- OM-1.1.2 The paper (see <u>www.bis.org/publ/bcbs40.pdf</u>) issued in September 1998 presents the first internationally accepted framework for supervisors to use in evaluating the effectiveness of the internal controls over all on- and off-balance-sheet activities of banking organisations.
- OM-1.1.3 The paper describes elements that are essential to a sound internal control system, recommends principles that supervisors can apply in evaluating such systems, and discusses the role of bank supervisors and external auditors in this assessment process.

Basel Committee: Principles for the Sound Management of Operational Risk

- OM-1.1.4 The paper (see <u>www.bis.org/publ/bcbs195.pdf</u>) issued in June 2011 by the <u>Basel</u> <u>Committee</u> on Banking Supervision, outlines a set of principles that provide a framework for the effective management and supervision of operational risk, for use by banks and supervisory authorities when evaluating operational risk management policies and practices.
- OM-1.1.5 The paper also recognises that clear strategies and oversight by the Board of Directors and senior management, a strong operational risk culture and internal control culture (including, among other things, clear lines of responsibility and segregation of duties), effective internal reporting, and contingency planning are all crucial elements of an effective operational risk management framework for banks of any size and scope.



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CHAPTER	OM-1	International Guidance and Best Practice

OM-1.1 Guidance Provided by International Bodies (continued)

Basel Committee: Risk Management for Electronic Banking and Electronic Money Activities

- OM-1.1.6 The paper (see www.bis.org/publ) issued in March 1998 provides guidelines for supervisory authorities and banking organisations as they develop methods for identifying, assessing, managing and controlling the risks associated with <u>electronic banking</u> and <u>electronic money</u>.
- OM-1.1.7 The paper indicates that, while providing new opportunities for banks, <u>electronic banking</u> and <u>electronic money</u> activities carry risks as well as benefits and it is important that these risks are recognised and managed in a prudent manner.

Basel Committee: Risk Management Principles for Electronic Banking

- OM-1.1.8 The paper (see www.bis.org/publ) issued in July 2003 recognizes new risks associated with the increase in distribution of financial services through electronic channels, or e-banking. To emphasize the importance of these risks, the Committee has placed responsibility on the shoulders of the Board and senior management to ensure their institutions have analysed, identified and modified operations to mitigate these risks.
- OM-1.1.9 To facilitate these developments, the Committee has identified fourteen Risk Management Principles for <u>Electronic Banking</u> to help banking institutions expand their existing risk oversight policies and processes to cover their ebanking activities.
- OM-1.1.10 The Risk Management Principles fall into three broad, and often overlapping, categories of issues that are grouped to provide clarity: Board and Management Oversight; Security Controls; and Legal and <u>Reputational Risk</u> Management.

Joint Forum: High Level Principles for Business Continuity

OM-1.1.11 This paper provides a broad framework for business continuity standards, and contains seven principles for regulators and industry participants to follow. It was published in August 2006 and is available in the "publications" section of the Basel Committee portion of the BIS website (www.bis.org).



MODULE	OM:	Operational Risk Management
CHAPTER	OM-2:	General Requirements

OM-2.1 Overview

- OM-2.1.1 This Chapter provides guidance and rules for operational risk and sets out requirements for an appropriate risk management environment, including business continuity, outsourcing and electronic banking. Operational risk is defined as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. This definition includes legal risk, but excludes strategic and <u>reputational risk</u>.
- OM-2.1.2 Operational risk is inherent in all types of banks' activities, and therefore all new products and services should be reviewed for operational risks prior to their implementation. As these risks are important and can result in substantial losses, bank auditors should include operational audits in the scope of all audits.
- OM-2.1.3 The importance of operational risk has gained prominence as increasing reliance on sophisticated technology raises concerns of potential losses should unforeseen events cause technological failures. Banks have traditionally focused on controlling and mitigating credit and liquidity risks, however, enhanced levels of automation, while reducing costs and processing times, also pose potential risks. As such any one process or system failure may itself or through a series of systematic failures, cause financial or other losses to a bank. Therefore, it has become imperative that banks should establish policies and procedures to monitor and control operational risks.
- OM-2.1.4 The CBB will use the papers mentioned in Paragraphs OM-1.1.1 to OM-1.1.11 as guidelines in evaluation of the internal control systems of banks operating in Bahrain. Such evaluations will be made through the CBB's normal supervisory processes (e.g. meetings with management, on-site examinations (Module BR) and the use of appointed experts (Section BR-6.5).



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OM-2.2 Developing an Appropriate Risk Management Environment

- **OM-2.2.1** It must be standard practice for a bank's management to implement policies and procedures to manage risks arising out of a bank's activities. The bank must maintain written policies and procedures that identify the risk tolerances approved by the Board of Directors and must clearly delineate lines of authority and responsibility for managing the risks. Banks' employees and loan officers in particular must be fully aware of all policies and procedures that relate to their specific duties.
- OM-2.2.2 The bank's strategy must define its tolerance for risk and lay out the Board's understanding of the specific characteristics of operational risk.

The Board of Directors



The Board of Directors must be aware of the major aspects of the bank's operational risk as a distinct and controllable risk Category.

OM-2.2.4

The responsibilities of the Board of Directors of the bank must include:

- (a) Approving the bank's operational risk strategy;
- (b) Periodically reviewing the bank's operational risk strategy;
- (c) Approving the basic structure of the framework for managing operational risk; and
- (d) Ensuring that senior management is carrying out its risk management responsibilities.



OM-2.2.5

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OM-2.2 Developing an Appropriate Risk Management Environment (continued)

Senior Management

The responsibilities of the senior management of the bank must include:

- (a) Implementing the operational risk strategy approved by the Board of Directors;
- (b) Ensuring that the strategy is implemented consistently throughout the whole banking organisation;
- (c) Ensuring that all levels of staff understand their responsibilities with respect to operational risk management;
- (d) Developing and implementing policies, processes and procedures for managing operational risk in all of the bank's products, activities, processes and systems;
- (e) Developing succession plans for senior staff; and
- (f) Developing Business Continuity Plans for the bank.

Management Information System

- OM-2.2.6 The management information system of a banking organisation plays a key role in establishing and maintaining an effective operational risk management framework.
- OM-2.2.7 *Communication flow'* serves the purpose of establishing a consistent operational risk management culture across the bank. 'Reporting flow' enables:
 - (a) Senior management to monitor the effectiveness of the risk management system for operational risk; and
 - (b) The Board of Directors to oversee senior management performance.



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OM-2.3 Identification, Measurement, Monitoring and Control

OM-2.3.1

As part of an effective operational risk management system, banks must:

- (a) Identify critical processes, resources and loss events;
- Establish processes necessary for measuring operational risk; (b)
- Monitor operational risk exposures and loss events on an on-(c) going basis; and
- (d) Develop policies, processes and procedures to control or mitigate operational risk.
- OM-2.3.2 Banks should assess the costs and benefits of alternative risk limitation and control strategies and should adjust their operational risk exposure using appropriate strategies, in light of their overall risk profile.



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OM-2.4 Succession Planning

- OM-2.4.1 Succession planning is an essential precautionary measure for a bank if its leadership stability and hence ultimately its financial stability is to be protected. Succession planning is especially critical for smaller institutions, where management teams tend to be smaller and possibly reliant on a few key individuals.
- OM-2.4.2 The CBB requires locally incorporated banks to document their Board-approved <u>succession plans</u> for their senior management team and have these ready at any time for onsite inspection by CBB staff.

OM-2.4.3 [This Paragraph was deleted in July 2011].



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CHAPTER	OM-3:	Outsourcing

OM-3.1 Introduction

- OM-3.1.1 This Chapter sets out the CBB's approach to outsourcing by licensees. It also sets out various requirements that licensees must address when considering outsourcing an activity or function.
- **OM-3.1.2** In the context of this Chapter, 'outsourcing' means an arrangement whereby a third party performs on behalf of a licensee an activity which was previously undertaken by the licensee itself (or in the case of a new activity, one which commonly would have been performed internally by the licensee). Examples of services that are typically outsourced include data processing, customer call centres and back-office related activities.
- OM-3.1.3 Most of the Directives in this Chapter are concerned with situations where the third party provider is outside the licensee's group. Section OM-3.8, however, sets out the CBB's requirements when a service is outsourced to a company within the licensee's group.
- **OM-3.1.4** The requirements in this Chapter only apply to 'material' outsourcing arrangements. These are arrangements that, if they failed in any way, would pose significant risks to the on-going operations of a licensee, its reputation and/or quality of service provided to its customers. For instance, the outsourcing of all or a substantial part of functions such as customer sales and relationship management, settlements and processing, IT and data processing and financial control, would normally be considered 'material'.
- OM-3.1.5 Management should carefully consider whether a proposed outsourcing arrangement falls under this Chapter's definition of 'material'. If in doubt, management should consult with the CBB.
- **OM-3.1.6** The requirements in this Chapter only apply to outsourcing arrangements entered into after May 2003. In the case of pre-existing outsourcing agreements, the CBB requires licensees to apply the requirements of this Chapter to the fullest extent possible when these arrangements are subsequently renewed.

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OM-3.1 Introduction (continued)



[This Paragraph was deleted in July 2011].



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OM-3.2 Supervisory Approach

- OM-3.2.1 The CBB recognises the benefits that can potentially be achieved through outsourcing an activity to a third party provider. They can include reduced costs, enhanced service quality and a reduction in management time spent on non-core activities. However, outsourcing an activity also poses potential risks. These include the ability of the service provider to maintain service quality levels, reduced control over the activity and access to relevant information, and increased legal and client confidentiality risks.
- **OM-3.2.2** The CBB's approach is to allow licensees the freedom to enter into outsourcing arrangements, providing these have been properly structured and associated risks addressed.
- **OM-3.2.3** The CBB expects licensees to have undertaken a thorough assessment of a proposal before formally submitting a notification to the CBB. However, the CBB is also willing to discuss ideas informally at an early stage of development, on a 'no-commitment' basis. It especially encourages an early approach when the proposed outsourcing is particularly material or innovative.
- OM-3.2.4
- Once an outsourcing arrangement has been implemented, the CBB requires a licensee to continue to monitor the associated risks and the effectiveness of its mitigating controls. It will verify this through the course of its normal on-site and off-site supervisory processes, such as prudential meetings and on-site examinations. The CBB also requires access to the outsourced activity, which it may occasionally want to examine itself, through management meetings or on-site examinations.

OM-3.2.5

Fundamental to the CBB's supervisory approach to outsourcing is that the Board and management of the licensee may not abdicate their responsibility for a licensee's business and the way its customers are treated. The Board and management remain ultimately responsible for the effectiveness of systems and controls in outsourced activities.



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OM-3.2 Supervisory Approach (continued)

- OM-3.2.6 The board and senior management are responsible for understanding the operational risks associated with outsourcing arrangements and ensuring that effective risk management policies and practices are in place to manage the risk in outsourcing activities. Outsourcing policies and risk management activities should encompass:
 - Procedures for determining whether and how activities can be outsourced; (a)
 - (b) Processes for conducting due diligence in the selection of potential service providers;
 - Sound structuring of the outsourcing arrangement, including ownership and (c) confidentiality of data, as well as termination rights;
 - Programmes for managing and monitoring the risks associated with the (d) outsourcing arrangement, including the financial condition of the service provider;
 - (e) Establishment of an effective control environment at the bank and the service provider:
 - Development of viable contingency plans; and (f)
 - (g) Execution of comprehensive contracts and/or service level agreements with a clear allocation of responsibilities between the outsourcing provider and the bank.



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OM-3.3 Notifications and Prior Approval

OM-3.3.1

A licensee must formally notify the CBB and seek its prior approval before committing to a new material outsourcing arrangement.

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OM-3.3.2
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The above notification must:

- (a) Be made in writing to the licensee's normal supervisory contact;
- (b) Contain sufficient detail to demonstrate that relevant issues raised in Section OM-3.4 onward of this Chapter have been addressed; and
- (c) Be made at least 6 weeks before the licensee intends to commit to the arrangement.
- OM-3.3.3

The CBB will review the information provided and provide a definitive response within 6 weeks of receiving the notification. Where further information is requested from the licensee, however, the time taken to provide this further information will not be taken into account. The CBB may also contact home or host supervisors of the licensee or the service provider, to seek their comments – in such cases, the 6-week turnaround is also subject to the speed of their response.

OM-3.3.4

Once an activity has been outsourced, a licensee must immediately inform its normal supervisory contact at the CBB of any material problems encountered with the outsourcing provider. In exceptional cases, the CBB reserves the right to direct a licensee to make alternative arrangements for the outsourced activity.



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OM-3.4 Risk Assessment

OM-3.4.1 Licensees must undertake a thorough risk assessment of an outsourcing proposal, before formally notifying the CBB and committing itself to an agreement.

OM-3.4.2

- The risk assessment must amongst other things include an analysis of:
 - (a) The business case;
 - (b) The suitability of the outsourcing provider; and
 - (c) The impact of the outsourcing on the licensee's overall risk profile and its systems and controls framework.
- OM-3.4.3 In assessing the suitability of the outsourcing provider, the licensee should amongst other things consider its financial soundness, its technical competence, its commitment to the arrangement, and its reputation.
- OM-3.4.4 Once an outsourcing agreement has been entered into, licensees must regularly review the suitability of the outsourcing provider and the ongoing impact of the agreement on their risk profile and systems and controls framework. Such reviews must take place at least every year.
- **OM-3.4.5** A licensee must nominate a member of senior management with dayto-day responsibility for handling the relationship with the outsourcing provider and ensuring that relevant risks are addressed. This person must be notified to the CBB as part of the notification required under Section OM-3.3 above.



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OM-3.5 Outsourcing Agreement

- **OM-3.5.1** The activities to be outsourced and respective contractual liabilities and obligations of the outsourcing provider and licensee must be clearly specified in an outsourcing agreement. This agreement must amongst other things address the following points:
 - (a) Control over outsourced activities
 - 1. The Board and management of licensees are held ultimately responsible by the CBB for the adequacy of systems and controls in outsourced activities. Licensees must therefore ensure that they have adequate mechanisms for monitoring the performance of, and managing the relationship with, the outsourcing provider.
 - 2. A <u>service level agreement</u> ("SLA") setting out the standards of service to be provided must form part of the outsourcing agreement. Where the outsourcing provider interacts directly with a licensee's customers, the SLA must where relevant reflect the licensee's own standards regarding customer care.
 - 3. Mechanisms for the regular monitoring by licensees of performance against the SLA and other targets, and for implementing remedies in case of any shortfalls, must also form part of the agreement.
 - 4. Clear reporting and escalation mechanisms must be specified in the agreement.
 - 5. Where an outsourcing provider in turn decides to subcontract to other providers, the original provider must remain contractually liable to the licensee for the quality and level of service agreed, and its obligations to the licensee must remain unchanged.



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OM-3.5 Outsourcing Agreement (continued)

- (b) Customer data confidentiality
 - 1. Licensees must ensure that outsourcing agreements comply with all applicable legal requirements regarding customer confidentiality.
 - 2. Licensees must ensure that the outsourcing provider implements adequate safeguards and procedures. Amongst other things, customer data must be properly segregated from those belonging to other clients the outsourcing provider may have. Outsourcing providers must give suitable undertakings that the company and its staff will comply with all applicable confidentiality rules. Licensees must have contractual rights to take action against the service provider in the event of a breach of confidentiality.
 - 3. Licensees must assess the impact of using an overseasbased outsourcing provider on their ability to maintain customer data confidentiality, for instance, because of the powers of local authorities to access such data.
- (c) Access to information
 - 1. Outsourcing agreements must ensure that the licensee's internal and external auditors have timely access to any relevant information they may require to fulfill their responsibilities. Such access must allow them to conduct on-site examinations of the outsourcing provider, if required.
 - 2. Licensees must also ensure that the CBB has timely access to any relevant information it may reasonably require under the law. Such access must allow the CBB to conduct on-site examinations of the outsourcing provider, if required.
 - 3. Where the outsourcing provider is based overseas, the outsourcing provider must confirm in the outsourcing agreement that there are no regulatory or legal impediments to either the licensee's internal and external auditors, or the CBB, having the access described above. Should such restrictions subsequently be imposed, the licensee must communicate this fact to the CBB as soon as it becomes aware of the matter.



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OM-3.5 Outsourcing Agreement (continued)

- 4. The outsourcing provider must commit itself, in the outsourcing agreement, to informing the licensee of any developments that may have a material impact on its ability to meet its obligations. These may include, for example, relevant control weaknesses identified by the outsourcing provider's internal or external auditors, and material adverse developments in the financial performance of the outsourcing provider.
- (d) Business continuity
 - 1. Licensees must ensure that service providers maintain, regularly review and test plans to ensure continuity in the provision of the outsourced service.
 - 2. Licensees must have an adequate understanding of the outsourcing provider's arrangements, to understand the implications for its own contingency arrangements (see Section OM-3.6).
- (e) Termination
 - 1. Licensees must have the right to terminate the agreement should the outsourcing provider undergo a change of ownership (whether direct or indirect) that poses a potential <u>conflict of interest</u>; becomes insolvent; or goes into liquidation or administration.
 - 2. Termination under any other circumstances allowed under the agreement must give licensees a sufficient notice period in which they can effect a smooth transfer of the service to another provider or bring it back in-house.
 - 3. In the event of termination, for whatever reason, the agreement must provide for the return of all customer data where required by licensees or their destruction.



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OM-3.6 Contingency Planning for Outsourcing Arrangements

OM-3.6.1 Licensees must maintain and regularly review <u>contingency plans</u> to enable them to set up alternative arrangements – with minimum disruption to business – should the outsourcing contract be suddenly terminated or the outsourcing provider fails. This may involve the identification of alternative outsourcing providers or the provision of the service in-house. These plans must consider how long the transition would take and what interim arrangements would apply.

OM-3.6.2 See Chapter OM-5 for further guidance on business continuity and contingency planning.



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OM-3.7 Internal Audit Outsourcing

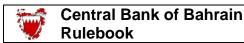
- **OM-3.7.1** Because of the critical importance of an effective internal audit function to a licensee's control framework, all proposals to outsource internal audit operations are to be considered material.
- OM-3.7.2 The CBB will generally not permit licensees to outsource their internal audit function to the same firm that acts as their external auditors. However, the CBB may allow short-term outsourcing of internal audit operations to a licensee's external auditor, to meet unexpected urgent or short-term needs (for instance, on account of staff resignation or illness). Any such arrangement will be limited to a maximum of one year.
- **OM-3.7.3** Licensees who have existing outsourcing arrangements in place with their external auditors relating to the provision of internal audit services are required to find suitable alternatives when the existing arrangements terminate or come up for renewal.
- OM-3.7.4 In all circumstances, Board and management of licensees must retain responsibility for ensuring that an adequate internal audit programme is implemented, and will be held accountable in this respect by the CBB.



MODULE	OM:	Operational Risk Management	
CHAPTER	OM-3:	Outsourcing	

OM-3.8 Intra-group Outsourcing

- **OM-3.8.1** As with outsourcing to non-group companies, the Board and management of licensees are held ultimately responsible by the CBB for the adequacy of systems and controls in activities outsourced to group companies.
- OM-3.8.2 However, the degree of formality required in terms of contractual agreements and control mechanisms for outsourcing within a licensee's group is likely to be less, because of common management and enhanced knowledge of other group companies.
- **OM-3.8.3** A licensee must formally notify the CBB at least 6 weeks before committing to a material <u>intra-group outsourcing</u>. The request must be made in writing to the licensee's normal supervisory contact, and must set out a summary of the proposed outsourcing, its rationale, and an analysis of its associated risks and proposed mitigating controls. The CBB will respond to the notification in the same manner and timescale as set in Section OM-3.3 above.
- OM-3.8.4 The CBB expects, as a minimum, an agreed statement of the standard of service to be provided by the group provider, including a clear statement of responsibilities allocated between the group provider and licensee.
- OM-3.8.5 The CBB also expects a licensee's management to have addressed the issues of customer confidentiality, access to information and business continuity covered above (Section OM-3.5).



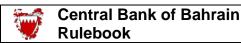
MODULE	OM:	Operational Risk Management
CHAPTER	OM-4:	Electronic Money and Electronic Banking Activities

OM-4.1 Electronic Banking

- OM-4.1.1 This Chapter refers to <u>Basel Committee</u> papers that the CBB requires relevant licensees to use as guidance on <u>electronic banking</u> activities.
- OM-4.1.2 The CBB considers that the following papers represent best practice and provide guidelines for recognising, addressing and managing risk associated with this area. Banks must take appropriate steps for the implementation of relevant recommendations set out therein:
 - (a) 'Risk Management for <u>Electronic Banking</u> and <u>Electronic</u> <u>Money</u> Activities' issued in March 1998 (see OM-1.1 for further references to the paper);
 - (b) 'Risk Management Principles for <u>Electronic Banking</u>' issued in May 2001 (see OM-1.1 for further references to the paper).

OM-4.1.3

Licensees must use the 'Risk Management Principles and Sound Practices' in the Basel Committee paper in OM-1.1 as guidelines to recognise and prudently manage risks associated with e-banking.



MODULE	OM:	Operational Risk Management	
CHAPTER	OM-5:	Business Continuity Planning	

OM-5.1 Introduction

Why do Financial Institutions Need Business Continuity Plans?

- OM-5.1.1 All businesses may experience serious disruptions to their business operations. These disruptions may be caused by external events such as flooding, power failure or terrorism, or by internal factors such as human error or a serious computer breakdown. The probability of some events may be small, but the potential consequences may be massive, whereas other events may be more frequent and with shorter time horizons. The Joint Forum (the Basel Committee on Banking Supervision (BCBS), the International Organisation of Securities Commissions (IOSCO) and the International Association of Insurance Supervisors (IAIS)) have given additional background and context to the need for business continuity in its paper of August 2006 titled "High Level Principles for Business Continuity" (www.bis.org).
- OM-5.1.2 According to the Joint Forum, in its paper, Business Continuity is "a whole of business approach for insuring that specified operations can be maintained or recovered in a timely fashion in the event of disruption. Its purpose is to minimize the operational, financial, legal, reputational, and other material consequences arising from a disruption". The objectives of a good business continuity plan ("BCP") are:
 (a) To minimise financial loss to the licensee;
 - (b) To continue to serve customers and counterparties in the financial markets; and
 - (c) To mitigate the negative effects that disruptions can have on a licensee's reputation, operations, liquidity, credit quality, its market position, and its ability to remain in compliance with applicable laws and regulations.
- OM-5.1.3 Banks play a critical role in an economy, in providing payment services, as holders of people's savings, and as providers of finance. Hence, a BCP is especially critical for banks. It helps ensure that their business operations are resilient and the effects of disruptions in service are minimized and thus helps maintain confidence in the banking system.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-5:	Business Continuity Planning

OM-5.1 Introduction (continued)

Scope and Key Elements of a BCP

OM-5.1.4 The requirements of this Chapter apply to all retail and wholesale banks (whether locally incorporated or a branch).

- OM-5.1.5 Branch Licensees of foreign banks may apply alternative arrangements to those specified in this module, where they are subject to comprehensive BCP arrangements implemented by their head office or other member of their group, provided that:
 - (a) They have notified the CBB in writing what alternative arrangements will apply;
 - (b) They have satisfied the CBB that these alternative arrangements are equivalent to the measures contained in this chapter, or are otherwise suitable; and
 - (c) The CBB has agreed in writing to these alternative arrangements being used.

Implementation

- **OM-5.1.6** The requirements in this Chapter must be complied with in full by 1 October 2007. Failure to comply with these requirements after that will trigger a supervisory response, which may include formal enforcement measures, as set out in Module EN (Enforcement).
- OM-5.1.7 For contingency planning relating to outsourcing activities, see Section OM-3.6.



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OM-5.2 General Requirements

- To ensure an ability to operate on an ongoing basis and limit losses in the event of severe business disruption all <u>conventional bank licensees</u> must maintain a business continuity plan (BCP) appropriate to the scale and complexity of their operations. A BCP must address the following key areas:
 - (a) Data back up and recovery (hard copy and electronic);
 - (b) Continuation of all critical systems, activities, and counterparty impact;
 - (c) Financial and operational assessments;
 - (d) Alternate communication arrangements between the licensee and its customers and its employees;
 - (e) Alternate physical location of employees;
 - (f) Communications with and reporting to the CBB and any other relevant regulators; and
 - (g) Ensuring customers' prompt access to their funds in the event of a disruption.
- OM-5.2.2

OM-5.2.1

Effective BCPs must be comprehensive, limited not just to disruption of business premises and information technology facilities, but covering all other critical areas, which affect the continuity of critical business operations or services (e.g. liquidity, human resources and others).

OM-5.2.3 Licensees must notify the CBB promptly if their BCP is activated. They must also provide regular progress reports – as agreed with the CBB – until the BCP is deactivated.

- OM-5.2.4 The CBB recognises that BCPs involve costs, and that it may not be cost effective to have a fully developed and implemented BCP for all conceivable worst-case scenarios. However, the CBB expects licensees to plan for how they may cope with the complete destruction of buildings and surrounding infrastructure in which their key offices, installations, counterparties or service providers are located. The loss of key personnel, and a situation where back-up facilities might need to be used for an extended period of time are important factors in effective BCPs.
- OM-5.2.5 Licensees may find it useful to consider two-tier plans: one to deal with near-term problems; this should be fully developed and able to be put into immediate effect. The other, which might be in paper form; should deal with a longer-term scenario (e.g. how to accommodate processes that might not be critical immediately but would become so over time).



MODULE	OM:	Operational Risk Management	
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OM-5.3 Board and Senior Management Responsibilities

Establishment of a Policy, Processes & Responsibilities

- OM-5.3.1 A Bank's Board of Directors and Senior Management are collectively responsible for a bank's business continuity. The Board must endorse the policies, standards and processes for a licensee's BCP, as established by its senior management. The Board and senior management must delegate adequate resources to develop the BCP, and for its maintenance and periodic testing.
- OM-5.3.2 Licensees must establish a Crisis Management Team (CMT) to develop, maintain and test their BCP, as well as to respond to and manage the various stages of a crisis. The CMT must comprise members of <u>senior management</u> and heads of major support functions (e.g. building facilities, IT, corporate communications and human resources).
- **OM-5.3.3** Licensees must establish (and document as part of the BCP) individuals' responsibilities in helping prepare for and manage a crisis; and the process by which a disaster is declared and the BCP initiated (and later terminated).

Monitoring and Reporting

- OM-5.3.4 The CMT must submit regular reports to the Board and senior management on the results of the testing of the BCP (refer to section OM-5.9). Major changes must be developed by CMT, reported to senior management, and endorsed by the Board.
- **OM-5.3.5** The Chief Executive of a licensee must sign a formal annual statement submitted to the Board on whether the recovery strategies adopted are still valid and whether the documented BCP is properly tested and maintained. The annual statement must be included in the BCP documentation and will be reviewed as part of the CBB's on-site examinations.



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OM-5.4 Developing a Business Continuity Plan

Impact Analysis

- OM-5.4.1 Licensees' BCPs must be based on (i) a business impact analysis (ii) an operational impact analysis, and (iii) a financial impact analysis. These analyses must be comprehensive, including all business functions and departments, not just IT or data processing.
- OM-5.4.2 The key objective of a Business Impact Analysis is to identify the different kinds of risk to business continuity and to quantify the operational and financial impact of disruptions on a licensee's ability to conduct its critical business processes.
- OM-5.4.3 A typical business impact analysis is normally comprised of two stages. The first is to identify and prioritise the critical business processes that must be continued in the event of a disaster. The first stage should take account of the impact on customers and reputation, the legal implications and the financial cost associated with downtime. The second stage is a time-frame assessment. This aims to determine how quickly the licensee needs to resume critical business processes identified in stage one.
- OM-5.4.4 Operational impact analysis focuses on the firm's ability to maintain communications with customers and to retrieve key activity records. It identifies the organizational implications associated with the loss of access, loss of utility, or loss of a facility. It highlights which functions may be interrupted by an outage, and the consequences to the public and customer of such interruptions.
- OM-5.4.5 A Financial Impact Analysis identifies the financial losses that (both immediate and also consequent to the event) arise out of an operational disruption.

Risk Assessment

OM-5.4.6 In developing a BCP, licensees must consider realistic threat scenarios that may (potentially) cause disruptions to their business processes.



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OM-5.4 Developing a Business Continuity Plan (continued)

OM-5.4.7 Licensees should analyse a threat by focusing on its impact on the business processes, rather than on the source of a threat. Certain scenarios can be viewed purely in terms of business disruption in specific work areas, systems or facilities. The scenarios should be sufficiently comprehensive to avoid the BCPs becoming too basic and thereby avoiding steps that could improve the resiliency of the licensee to disruptions.

OM-5.4.8

Business continuity plans must take into account different types of likely or plausible scenarios to which the bank may be vulnerable. In particular, the following specific scenarios must at a minimum, be considered in the BCP:

- Utilities are not available (power, telecommunications);
- Critical buildings are not available or specific facilities are not accessible;
- Software and live data are not available or are corrupted;
- Vendor assistance or (outsourced) service providers are not available;
- Critical documents or records are not available;
- Critical personnel are not available; and
- Significant equipment malfunctions (hardware or telecom).

OM-5.4.9

Licensees must distinguish between threats with a higher probability of occurrence and a lower impact to the business process (e.g. brief power interruptions) to those with a lower probability and higher impact (e.g. a terrorist bomb).

OM-5.4.10

As a starting point, licensees must perform a "gap analysis". This gap analysis is a methodical comparison of what types of plans the licensee requires in order to maintain, resume or recover critical business operations or services in the event of a disruption, versus what the existing BCP provides. Management and the Board can address the areas that need development in the BCP, using the gap analysis.



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OM-5.5 BCP – Recovery Levels & Objectives

OM-5.5.1 The BCP must document strategies and procedures to maintain, resume and recover critical business operations or services. The plan must differentiate between critical and non-critical functions. The BCP must clearly describe the types of events that would lead up to the formal declaration of a business disruption and the process for activating the BCP.

OM-5.5.2 The BCP must clearly identify alternate sites for different operations, the total number of recovery personnel, workspace requirements, and applications and technology requirements. Office facilities and records requirements must also be identified.

- OM-5.5.3 Licensees should take note that they might need to cater for processing volumes that exceed those under normal circumstances. The interdependency among critical services is another major consideration in determining the recovery strategies and priority. For example, the resumption of the front office operations is highly dependent on the recovery of the middle office and back office support functions.
- OM-5.5.4 Individual critical business and support functions must establish the minimum BCP recovery objectives for recovering essential business operations and supporting systems to a specified level of service ("recovery level") within a defined period following a disruption ("recovery time"). These recovery levels and recovery times must be approved by the senior management prior to proceeding to the development of the BCP.

List of Contacts and Responsibilities

OM-5.5.5 The BCP must contain a list of all key personnel. The list must include personal contact information on each key employee such as their home address, home telephone number, and cell phone or pager number so they may be contacted in case of a disaster or other emergency.



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OM-5.5 BCP – Recovery Levels & Objectives (continued)

OM-5.5.6 The BCP must contain all the necessary process steps to complete each critical business operation or service. Each process must be explained in sufficient detail to allow another employee to perform the job in case of a disaster.

Alternate Sites for Business and Technology Recovery

- OM-5.5.7 Most business continuity efforts are dependent on the availability of an alternate site (i.e. recovery site) for successful execution. The alternate site may be either an external site available through an agreement with a commercial vendor or a site within the Licensee's real estate portfolio. A useable, functional alternate site is an integral component of BCP.
- **OM-5.5.8** Licensees must examine the extent to which key business functions are concentrated in the same or adjacent locations and the proximity of the alternate sites to primary sites. Alternate sites must be sufficiently remote from, and do not depend upon the same physical infrastructure components as a licensee's primary business location. This minimises the risk of both sites being affected by the same disaster (e.g. they must be on separate or alternative power grids and telecommunication circuits).
- **OM-5.5.9** Licensees' alternate sites must be readily accessible and available for occupancy (i.e. 24 hours a day, 7 days a week) within the time requirement specified in their BCP. Should the BCP so require, the alternate sites must have pre-installed workstations, power, telephones and ventilation, and sufficient space. Appropriate physical access controls such as access control systems and security guards must be implemented in accordance with Licensee's security policy.
- OM-5.5.10 Other than the establishment of alternate sites, licensees should also pay particular attention to the transportation logistics for relocation of operations to alternate sites. Consideration should be given to the impact a disaster may have on the transportation system (e.g. closures of roads). Some staff may have difficulty in commuting from their homes to the alternate sites. Other logistics, such as how to re-route internal and external mail to alternate sites should also be considered. Moreover, pre-arrangement with telecommunication companies for automated telephone call diversion from the primary work locations to the alternate sites should be considered.



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OM-5.5 BCP – Recovery Levels & Objectives (continued)

- OM-5.5.11 Alternate sites for technology recovery (i.e. back-up data centres), which may be separate from the primary business site, should have sufficient technical equipment (e.g. workstations, servers, printers, etc.) of appropriate model, size and capacity to meet recovery requirements as specified by licensees' BCPs. The sites should also have adequate telecommunication (including bandwidth) facilities and pre-installed network connections as specified by their BCP to handle the expected voice and data traffic volume.
- OM-5.5.12 Licensees should avoid placing excessive reliance on external vendors in providing BCP support, particularly where a number of institutions are using the services of the same vendor (e.g. to provide back-up facilities or additional hardware). Licensees should satisfy themselves that such vendors do actually have the capacity to provide the services when needed and the contractual responsibilities of the vendors should be clearly specified. Licensees should recognise that outsourcing a business operation does not transfer the associated business continuity management responsibilities.
- OM-5.5.13 The contractual terms should include the lead-time and capacity that vendors are committed to deliver in terms of back-up facilities, technical support or hardware. The vendor should be able to demonstrate its own recoverability including the specification of another recovery site in the event that the contracted site becomes unavailable.
- OM-5.5.14 Certain licensees may rely on a reciprocal recovery arrangement with other institutions to provide recovery capability (e.g. Cheque sorting and cash handling). Licensees should, however, note that such arrangements are often not appropriate for prolonged disruptions or an extended period of time. This arrangement could also make it difficult for Licensees to adequately test their BCP. Any reciprocal recovery agreement should therefore be subject to proper risk assessment and documentation by licensees, and formal approval by the Board.



OM-5.6.2

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OM-5.6 Detailed Procedures for the BCP

OM-5.6.1 Once the recovery levels and recovery objectives for individual business lines and support functions are determined, the development of the detailed BCP should commence. The objective of the detailed BCP is to provide detailed guidance and procedures in a crisis situation, of how to recover critical business operations or services identified in the Business Impact Analysis stage, and to ultimately return to operations as usual.

Crisis Management Process

A BCP must set out a Crisis Management Plan (CMP) that serves as a documented guidance to assist the CMT in dealing with a crisis situation to avoid spill over effects to the business as a whole. The overall CMP, at a minimum, must contain the following:

- (a) A process for ensuring early detection of an emergency or a disaster situation and prompt notification to the CMT about the incident;
- (b) A process for the CMT to assess the overall impact of the crisis situation on the licensee and to make quick decisions on the appropriate responses for action (i.e. staff safety, incident containment and specific crisis management procedures);
- (c) Arrangements for safe evacuation from business locations (e.g. directing staff to a pre-arranged emergency assembly area, taking attendance of all employees and visitors at the time and tracking missing people through different means immediately after the disaster);
- (d) Clear criteria for activation of the BCP and/or alternate sites;
- (e) A process for gathering updated status information for the CMT (e.g. ensuring that regular conference calls are held among key staff from relevant business and support functions to report on the status of the recovery process);
- (f) A process for timely internal and external communications; and
- (g) A process for overseeing the recovery and restoration efforts of the affected facilities and the business services.



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OM-5.6 Detailed Procedures for the BCP (continued)

OM-5.6.3 If CMT members need to be evacuated from their primary business locations, the licensee should set up a command centre to provide the necessary workspace and facilities for the CMT. Command centres should be sufficiently distanced from the licensee's primary business locations to avoid being affected by the same disaster.

Business Resumption

- OM-5.6.4 Each relevant business and support function must assign at least one member to be a part of the CMT to carry out the business resumption process for the relevant business and supported function. Appropriate recovery personnel with the required knowledge and skills must be assigned to the team.
- OM-5.6.5 Generally, the business resumption process consists of three major phases:
 - (a) The mobilisation phase This phase aims to notify the recovery teams (e.g. via a call-out tree) and to secure the resources (e.g. recovery services provided by vendors) required to resume business services.
 - (b) The alternate processing phase This phase emphasizes the resumption of the business and service delivery at the alternate site and/or in a different way than the normal process. This may entail record reconstruction and verification, establishment of new controls, alternate manual processes, and different ways of dealing with customers and counterparties; and
 - (c) The full recovery phase This phase refers to the process for moving back to a permanent site after a disaster. This phase may be as difficult and critical to the business as the process to activate the BCP.
- OM-5.6.6 For the first two phases above, clear responsibilities should be established and activities prioritised. A recovery tasks checklist should be developed and included in the BCP.

Technology Recovery

OM-5.6.7 Business resumption very often relies on the recovery of technology resources that include applications, hardware equipment and network infrastructure as well as electronic records. The technology requirements that are needed during recovery for individual business and support functions should be specified when the recovery strategies for the functions are determined.



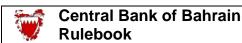
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Detailed Procedures for the BCP (continued) **OM-5.6**

- OM-5.6.8 Licensees should pay attention to the resilience of critical technology equipment and facilities such as the uninterruptible power supply (UPS) and the computer cooling systems. Such equipment and facilities should be subject to continuous monitoring and periodic maintenance and testing.
- **OM-5.6.9** Appropriate personnel must be assigned with the responsibility for technology recovery. Alternative personnel need to be identified as back up for key technology recovery personnel in the case of the latter unavailability to perform the recovery process.

Disaster Recovery Models

- OM-5.6.10 There are various disaster recovery models that can be adopted by licensees to handle prolonged disruptions. The traditional model is an "active/back-up" model, which is widely used by many organizations. This traditional model is based on an "active" operating site with a corresponding alternate site (back-up site), both for data processing and for business operations.
- OM-5.6.11 A split operations model, which is increasingly being used by major institutions, operates with two or more widely separated active sites for the same critical operations, providing inherent back up for each other (e.g. branches). Each site has the capacity to take up some or all of the work of another site for an extended period of time. This strategy can provide nearly immediate resumption capacity and is normally able to handle the issue of prolonged disruptions.
- OM-5.6.12 The split operations model may incur higher operating costs, in terms of maintaining excess capacity at each site and added operating complexity. It may also be difficult to maintain appropriately trained staff and the split operations model can pose technological issues at multiple sites.
- OM-5.6.13 The question of what disaster recovery model to adopt is for individual licensees' judgment based on the risk assessment of their business environment and the characteristics of their own operations.



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OM-5.7 Vital Records Management

- OM-5.7.1 Each BCP must clearly identify information deemed vital for the recovery of critical business and support functions in the event of a disaster as well as the relevant protection measures to be taken for protecting vital information. Licensees must refer to Chapter OM-7 when identifying vital information for business continuity. Vital information includes information stored on both electronic and non-electronic media.
- OM-5.7.2 Copies of vital records must be stored off-site as soon as possible after creation. Back-up vital records must be readily accessible for emergency retrieval. Access to back-up vital records must be adequately controlled to ensure that they are reliable for business resumption purposes. For certain critical business operations or services, licensees must consider the need for instantaneous data back up to ensure prompt system and data recovery. There must be clear procedures indicating how and in what priority vital records are to be retrieved or recreated in the event that they are lost, damaged or destroyed.



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OM-5.8 Other Policies Standards, and Processes

Employee Awareness and Training Plan

- **OM-5.8.1** Licensees must implement an awareness plan and business continuity training for employees to ensure that all employees are continually aware of their responsibilities and know how to remain in contact and what to do in the event of a crisis.
- OM-5.8.2 Key employees should be involved in the business continuity development process, as well as periodic training exercises. Cross training should be utilised to anticipate restoring operations in the absence of key employees. Employee training should be regularly scheduled and updated to address changes to the BCP.

Public Relations & Communication Planning

- OM-5.8.3 Licensees must develop an awareness program and formulate a formal strategy for communication with key external parties (e.g. CBB and other regulators, investors, customers, counterparties, business partners, service providers, the media and other stakeholders) and provide for the type of information to be communicated. The strategy needs to set out all the parties the licensee must communicate to in the event of a disaster. This will ensure that consistent and up-to-date messages are conveyed to the relevant parties. During a disaster, ongoing and clear communication is likely to assist in maintaining the confidence of customers and counterparties as well as the public in general.
- **OM-5.8.4** The BCP must clearly indicate who may speak to the media and other key external parties, and have pre-arrangements for redirecting external communications to designated staff during a disaster. Important contact numbers and e-mail addresses of key external parties must be kept in a readily accessible manner (e.g. in wallet cards or licensees' intranet).
- OM-5.8.5 Licensees may find it helpful to prepare draft press releases as part of their BCP. This will save the CMT time in determining the main messages to convey in a chaotic situation. Important conversations with external parties should be properly logged for future reference.



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OM-5.8 Other Policies, Standards and Processes (continued)

OM-5.8.6 As regards internal communication, the BCP should set out how the status of recovery can be promptly and consistently communicated to all staff, parent bank, head office, branches and subsidiaries (where appropriate). This may entail the use of various communication channels (e.g. broadcasting of messages to mobile phones of staff, Licensees websites, e-mails, intranet and instant messaging).

Insurance and other Risk Mitigating Measures

OM-5.8.7 Licensees must have proper insurance coverage to reduce the financial losses that they may face during a disaster. Licensees must regularly review the adequacy and coverage of their insurance policies in reducing any foreseeable risks caused by disasters (e.g. loss of offices, critical IT facilities and equipment).

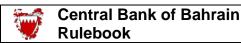
Government and Community

OM-5.8.8 Licensees may need to coordinate with community and government officials and the media to ensure the successful implementation of the BCP. This establishes proper protocol in case a city- wide or region- wide event impacts the licensee's operations. During the recovery phase, facilities access, power, and telecommunications systems should be coordinated with various entities to ensure timely resumption of operations. Facilities access should be coordinated with the police and fire department and, depending on the nature and extent of the disaster.

Disclosure Requirements

OM-5.8.9

Licensees must disclose how their BCP addresses the possibility of a future significant business disruption and how the licensee will respond to events of varying scope. Licensees must also state whether they plan to continue business during disruptions and the planned recovery time. The licensees might make these disclosures on their websites, or through mailing to key external parties upon request. In all cases, BCP disclosures must be reviewed and updated to address changes to the BCP.

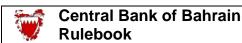


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OM-5.9 Maintenance, Testing and Review

Testing & Rehearsal

- OM-5.9.1 A BCP is not complete if it has not been subject to proper testing. Testing is needed to ensure that the BCP is operable. Testing verifies the awareness of staff and the preparedness of differing departments/functions of the bank.
- OM-5.9.2 Licensees must test their BCPs at least annually. Senior management must participate in the annual testing, and demonstrate their awareness of what they are required to do in the event of the BCP being involved. Also, the recovery and alternate personnel must participate in testing rehearsals to familiarise themselves with their responsibilities and the back-up facilities and remote sites (where applicable).
- **OM-5.9.3** All of the BCP's related risks and assumptions must be reviewed for relevancy and appropriateness as part of the annual planning of testing. The scope of testing must be comprehensive enough to cover the major components of the BCP as well as coordination and interfaces among important parties. A testing of particular components of the BCP or a fully integrated testing must be decided or depending on the situation. The following points must be included in the annual testing:
 - (a) Staff evacuation and communication arrangements (e.g. call-out trees) must be validated;
 - (b) The alternate sites for business and technology recovery must be activated;
 - (c) Important recovery services provided by vendors or counterparties must form part of the testing scope;
 - (d) Licensees must consider testing the linkage of their back up IT systems with the primary and back up systems of service providers;
 - (e) If back up facilities are shared with other parties (e.g. subsidiaries of the licensee), the licensee needs to verify whether all parties can be accommodated concurrently; and
 - (f) Recovery of vital records must be performed as part of the testing.



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OM-5.9 Maintenance, Testing and Review (continued)

OM-5.9.4 Formal testing reviews of the BCP must be performed to assess the thoroughness and effectiveness of the testing. Specifically, a post-mortem review report must be prepared at the completion of the testing stage for formal sign-off by Licensees' senior management. If the testing results indicate weaknesses or gaps in the BCP, the plan and recovery strategies must be updated to remedy the situation.

Periodic Maintenance and Updating of a BCP

- **OM-5.9.5** Licensees must have formal procedures to keep their BCP updated with respect to any changes to their business. In the event of a plan having been activated, a review process must be carried out once normal operations are restored to identify areas for improvement. If vendors are needed to provide vital recovery services, there must be formal processes for regular (say, annual) reviews of the appropriateness of the relevant service level agreements.
- **OM-5.9.6** Individual business and support functions, with the assistance of the CMT, must review their business impact analysis and recovery strategy on an annual basis. This aims to confirm the validity of, or whether updates are needed to, the BCP requirements (including the technical specifications of equipment of the alternate sites) for the changing business and operating environment.
- **OM-5.9.7** The contact information for key staff, counterparties, customers and service providers must be updated as soon as possible when notification of changes is received.



MODULE	OM:	Operational Risk Management	
CHAPTER	OM-5:	Business Continuity Planning	

OM-5.9 Maintenance, Testing and Review (continued)

- **OM-5.9.8** Significant internal changes (e.g. merger or acquisitions, business reorganisation or departure of key personnel) must be reflected in the plan immediately and reported to senior management.
- OM-5.9.9 Copies of the BCP document must be stored at locations separate from the primary site. A summary of key steps to be taken in an emergency situation must be made available to <u>senior management</u> and other key personnel.

Audit and Independent Review

OM-5.9.10 The internal audit function of a licensee or its external auditors must conduct periodic reviews of the BCP to determine whether the plan remains realistic and relevant, and whether it adheres to the policies and standards of the licensee. This review must include assessing the adequacy of business process identification, threat scenario development, business impact analysis and risk assessments, the written plan, testing scenarios and schedules, and communication of test results and recommendations to the Board.

OM-5.9.11

Significant findings must be brought to the attention of the Board and Senior Management within three months of the completion of the review. Furthermore, Senior Management and the Board must ensure that any gaps or shortcomings reported to them are addressed in an appropriate and timely manner.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6	Security Measures for Banks

OM-6.1 Physical Security Measures

External Measures

OM-6.1.1

The content of this Section is applicable to all retail banks licensed by the CBB in the Kingdom of Bahrain.

OM-6.1.2 All head offices are required to maintain Ministry of Interior ("MOI") guards on a 24 hours basis. All branches must maintain a 24 hour MOI guard. However, if branches satisfy the criteria mentioned in Paragraphs OM-6.1.3 to OM-6.1.22 below, they may maintain MOI guards during opening hours only. Furthermore, banks will be allowed to replace MOI armed guards with private security guards subject to the approval of the MOI. Training and approval of private security guards will be given by the MOI. Head Offices must always have a 24 hour MOI guard.

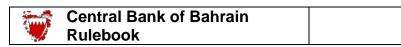
OM-6.1.3

Public entrances to head offices and branches must be protected by measures such as steel rolling shutters, or the external doors must be of solid steel or a similar solid material of equivalent strength and resistance to fire.

OM-6.1.4

Other external entrances must have steel doors or be protected by steel rolling shutters. Preferably, all other external entrances must have the following security measures:

- (a) Magic eye;
- (b) Locking device (key externally and handle internally);
- (c) Door closing mechanism;
- (d) Contact sensor with alarm for prolonged opening time; and
- (e) Combination access control system (e.g. access card and key slot or swipe card and password).



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6	Security Measures for Banks

OM-6.1.5 If additional security measures to those mentioned in OM-6.1.3 and OM-6.1.4 such as security cameras, motion detectors or intruder alarms are installed, the requirement for steel external doors or protection by steel rolling shutters is waived.

OM-6.1.6 External windows must have security measures such as anti blast films and movement detectors. For ground floor windows, banks may also wish to add steel grills fastened into the wall.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6:	Security Measures for Banks



Branch alarm systems must have the following features:

- (a) PIR motion detectors;
- (b) Door sensors;
- (c) Anti vibration/movement sensors on vaults;
- (d) External siren; and
- (e) The intrusion detection system must be linked to the bank's (i.e. head office) monitoring unit and also the MOI Central Monitoring Unit.

Internal Measures

OM-6.1.8

Teller counters must be screened off from customers by a glass screen of no less than 1 meter in height from the counter work surface or 1.4 meters from the floor.



All areas where cash is handled must be screened off from customers and other staff areas.

OM-6.1.10

Access to teller areas must be restricted to authorised staff only. The design of the teller area must not allow customers to pass through it.

OM-6.1.11

Panic alarm systems for teller staff must be installed. The choice between silent or audible panic alarms is left to individual banks. Kick bars and/or hold up buttons must be spread throughout the teller and customer service areas and the branch manager's office. The panic alarm must be linked to the MOI Central Monitoring Unit.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6:	Security Measures for Banks

Cash Safety

OM-6.1.12	Cash precious metals and bearer instruments must be kept in
	fireproof cabinets/safes. Preferably, these cabinets/safes must be
	located in strong rooms.

- **OM-6.1.13** Strong rooms must be made of reinforced solid concrete, or reinforced block work. Doors to strong rooms must be steel and preferably also have a steel shutter fitted. Dual locking devices must be installed in strong room doors. Strong room doors must be located out of the sight of customers.
- **OM-6.1.14** Strong rooms must not contain any other openings except the entry door and where necessary, an air conditioning outlet. The air conditioning outlet must be protected with a steel grill.
- **OM-6.1.15** ATMs should not normally be replenished during customer opening hours. Replenishment of <u>off-site ATMs</u> must be performed by specialised service providers, comprising a crew of at least two persons. ATM replenishment staff must carry a mobile phone or communication device in case of emergency.
- OM-6.1.16 All cash movements between branches, to and from the CBB and to <u>off-site ATMs</u> must be performed by specialised service providers.
- OM-6.1.17 All ATMs must be properly maintained and covered by service or maintenance agreements. All ATMs must be inspected daily by bank staff to check that they are functioning properly and have not been tampered with.
- OM-6.1.18 All banks must maintain a list of all maintenance, replenishment and inspection visits by staff or other authorised parties.
- OM-6.1.19 All ATMs must be fitted with fraud detection and inhibiting devices (mandatory after year end 2006).



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6:	Security Measures for Banks

CCTV Network Systems

OM-6.1.20

All head offices and branches must have a CCTV network which is connected to a central monitoring unit located in the head office, and to the MOI Central Monitoring Unit.

OM-6.1.21

The location and type of CCTV cameras is left to the discretion of banks. At a minimum, CCTV cameras must cover the following areas:

- (a) Main entrance;
- (b) Other external doors;
- (c) Any other access points (e.g. ground floor windows);
- (d) The banking hall;
- (e) Tellers' area;
- (f) Strongroom entrance; and
- (g) ATMs (by way of internal or external cameras)

OM-6.1.22

Notices of CCTV cameras in operation must be put up for the attention of the public. CCTV records must be maintained for a minimum 45-day period. The transmission rate (in terms of the number of frames per second) must be high enough to make for effective monitoring. Delayed transmission of pictures to the Central Monitoring Unit is not acceptable. The CCTV system must be operational 24 hours per day.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6:	Security Measures for Banks

Training and Other Measures

- OM-6.1.23 Banks must establish the formal position of security manager. This person will be responsible for ensuring all bank staff are given annual, comprehensive security training. Banks must produce a security manual or procedures for staff, especially those dealing directly with customers. For banks with three or more branches, this position must be a formally identified position. For banks with one or two branches, the responsibilities of this position may be added to the duties of a member of management.
- **OM-6.1.24** The security manager must maintain records on documented security related complaints by customers and take corrective action or make recommendations for action on a timely basis. Actions and recommendations must also be documented.
- **OM-6.1.25** Banks must consider safety and security issues when selecting premises for new branches. Key security issues include prominence of location (i.e. Is the branch on a main street or a back street?), accessibility for emergency services, and assessment of surrounding premises (in terms of their safety or vulnerability), and the number of entrances to the branch. All banks are required to hold an Insurance Blanket Bond (which includes theft of cash in its cover).



MODULE	OM:	Operational Risk Management
CHAPTER	OM-6:	Security Measures for Banks

OM-6.2 Internet Security

OM-6.2.1

All banks providing internet banking services must regularly test their systems against security breaches and verify the robustness of the security controls in place. These tests must be conducted by security professionals, such as ethical hackers, that provide penetration testing services and a vulnerability assessment of the system.



The penetration testing referred to in Paragraph OM-6.2.1, must be conducted each year in June and December.

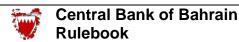
OM-6.2.3 The vulnerability assessment report, along with the steps taken to mitigate the risks must be maintained by the bank for a 5-year period from the date of testing and must be provided to the CBB within two months following the end of the month where the testing took place, i.e. for the June test, the report must be submitted at the latest by 31st August and for the December test, by 28th February (see Section BR-4A.2).



MODULE	OM:	Operational Risk Management
CHAPTER	OM-7:	Books and Records

OM-7.1 General Requirements

- OM-7.1.1 The requirements in Section OM-7.1 apply to <u>Bahraini conventional</u> <u>bank licensees</u>, with respect to the business activities of the whole bank (whether booked in Bahrain or in a foreign branch). The requirements in Section OM-7.1 also apply to <u>overseas conventional</u> <u>bank licensees</u>, but only with respect to the business booked in their branch in Bahrain.
- OM-7.1.2 With reference to Articles 59 and 60 of the CBB Law, all <u>conventional</u> <u>bank licensees</u> must maintain books and records (whether in electronic or hard copy form) sufficient to produce financial statements and show a complete record of the business undertaken by a licensee. These records must be retained for at least 10 years according to Article 60 of the CBB Law.
- OM-7.1.3 OM-7.1.2 includes accounts, books, files and other records (e.g. trial balance, general ledger, nostro/vostro statements, reconciliations and list of counterparties). It also includes records that substantiate the value of the assets, liabilities and off-balance sheet activities of the licensee (e.g. client activity files and valuation documentation).
- OM -7.1.4 [This Paragraph was deleted in April 2011].
- OM-7.1.5 Unless otherwise agreed with the CBB in writing, records must be kept in either English or Arabic; or else accompanied by a certified English or Arabic translation. Records must be kept current. The records must be sufficient to allow an audit of the licensee's business or an on-site examination of the licensee by the CBB.
- OM -7.1.6 If a licensee wishes to retain certain records in a language other than English or Arabic without translation, the licensee should write to the CBB, explaining which types of records it wishes to keep in a foreign language, and why systematically translating these may be unreasonable. Generally, only loan contracts or similar original transaction documents may be kept without translation. Where exemptions are granted by CBB, the licensee is nonetheless asked to confirm that it will make available certified translations of such documents, if requested by CBB for an inspection or other supervisory purpose.
- OM -7.1.7 Translations produced in compliance with Rule OM-7.1.5 may be undertaken inhouse, by an employee or contractor of the licensee, provided they are certified by an appropriate officer of the licensee.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-7:	Books and Records

OM-7.1 General Requirements (continued)

- OM-7.1.8 Records must be accessible at any time from within the Kingdom of Bahrain, or as otherwise agreed with the CBB in writing.
- OM-7.1.9 Where older records have been archived, or in the case of records relating to overseas branches of <u>Bahraini conventional banks</u>, the CBB may accept that records be accessible within a reasonably short time frame (e.g. within 5 business days), instead of immediately. The CBB may also agree similar arrangements for <u>overseas</u> <u>conventional banks</u>, as well as <u>Bahraini conventional banks</u>, where elements of record retention and management have been centralised in another group company, whether inside or outside of Bahrain.
- OM-7.1.10 All original account opening documentation, due diligence and transaction documentation should normally be kept in Bahrain, if the business is booked in Bahrain. However, where a licensee books a transaction in Bahrain, but the transaction documentation is handled entirely by another (overseas) branch or affiliate of the licensee, the relevant transaction documentation may be held in the foreign office, provided electronic or hard copies are retained in Bahrain; the foreign office is located in a FATF member state; and the foreign office undertakes to provide the original documents should they be required.
- OM-7.1.11 Licensees should also note that to perform effective consolidated supervision of a group (or sub-group), the CBB needs to have access to financial information from foreign operations of a licensee, in order to gain a full picture of the financial condition of the group: see Module BR (CBB Reporting), regarding the submission of consolidated financial data. If a licensee is not able to provide to the CBB full financial information on the activities of its branches and subsidiaries, it should notify the CBB of the fact, to agree alternative arrangements: these may include requiring the group to restructure or limit its operations in the jurisdiction concerned.
- **OM-7.1.12** In the case of <u>Bahraini conventional banks</u> with branch operations overseas, where local record-keeping keeping requirements are different, the higher of the local requirements or those contained in this Chapter must be followed.



MODULE	OM:	Operational Risk Management	
CHAPTER	OM-7:	Books and Records	

OM-7.2 Transaction Records

- OM-7.2.1 Conventional bank licensees must keep completed transaction records for as long as they are relevant for the purposes for which they were made (with a minimum period in all cases of five years from the date when the transaction was completed see Module Section FC-7.1). Records of completed transactions must be kept in their original form (whether in hard copy and / or electronic format), for at least five years from the date of the transaction.
- OM-7.2.2 For example, if the original documents are paper, they must be kept in their original form. Electronic payments and receipts may be kept electronically without the need for hard copies. The record format selected must be capable of producing complete and accurate financial, management and regulatory reports, and allow monitoring and review of all transactions.
- OM-7.2.3 Rule OM-7.2.1 applies to all transactions entered into by a <u>Bahraini</u> <u>conventional bank licensee</u>, whether booked in Bahrain or in an overseas branch. With respect to overseas conventional bank licensees, it applies only to transactions booked in the Bahrain branch.
- OM-7.2.4 In the case of <u>overseas conventional bank licensees</u>, Rule OM-7.2.1 therefore only applies to business booked in the Bahrain branch, not in the rest of the company.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-7:	Books and Records

OM-7.3 Other Records

Corporate Records

ОМ-7.3.1

<u>Conventional bank licensees</u> must maintain the following records in original form or in hard copy at their premises in Bahrain:

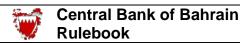
- (a) Internal policies, procedures and operating manuals;
- (b) Corporate records, including minutes of <u>shareholders</u>', <u>Directors</u>' and management meetings;
- (c) Correspondence with the CBB and records relevant to monitoring compliance with CBB requirements;
- (d) Reports prepared by the <u>conventional bank licensee's</u> internal and external auditors; and
- (e) Employee training manuals and records.
- OM-7.3.2 In the case of <u>Bahrain conventional bank licensees</u>, these requirements apply to the licensee as a whole, including any overseas branches. In the case of <u>overseas</u> <u>conventional bank licensees</u>, all the requirements of Chapter OM-7 are limited to the business booked in their branch in Bahrain and the records of that branch (see Rule OM-7.1.1). They are thus not required to hold copies of shareholders' and Directors' meetings, except where relevant to the branch's operations.

Customer Records

OM-7.3.3 Record-keeping requirements with respect to customer records, including customer identification and due diligence records, are contained in Module FC (Financial Crime). These requirements address specific requirements under the Amiri Decree Law No. 4 of 2001, the standards promulgated by the Financial Action Task Force, as well as to the best practice requirements of the Basel Committee Core Principles methodology, and its paper on "Customer due diligence for banks".

Promotional Schemes

OM-7.3.4 <u>Conventional bank licensees</u> must maintain all materials related to promotional schemes as outlined in Section BC-1.1 for a minimum period of 5 years.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-8:	Qualitative Aspects

OM-8.1 Introduction

OM-8.1.1 The contents of this Chapter apply in full to all <u>Bahraini conventional</u> <u>bank licensees</u> both on a consolidated basis and on a solo basis.

- OM-8.1.1A This Chapter may be used as guidance for <u>overseas conventional bank licensees</u>.
- OM-8.1.1.B Section CA-7.1 of the Capital Adequacy Module allows banks to use either the basic indicator approach or standardised approach to compute capital charge for operational risk. This chapter sets out the qualitative aspect of these two approaches.
- OM-8.1.2 Operational risk is defined as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. This definition includes legal risk¹, but excludes strategic and reputational risk.
- OM-8.1.3 Operational risk is inherent in all banking products, activities, processes and systems, and the effective management of operational risk must be a fundamental element of a bank's risk management programme. Sound operational risk governance relies upon three lines of defence:
 - (a) Business line management;
 - (b) An independent operational risk management function; and
 - (c) Independent review functions.
- OM-8.1.4 In the context of this Chapter, 'independent' and 'independent review' have the following meanings. The review functions must be independent of the risk generating business lines or the process or system under review. An independent review would include the following components:
 - (a) Verification of the <u>Framework</u> is done on a periodic basis and would be typically performed by the bank's internal and/or external audit, but may involve other suitably qualified independent parties from external sources. Verification activities test the effectiveness of the overall <u>Framework</u>, consistent with policies approved by the board of directors, and also test validation processes to ensure that they are independent and implemented in a manner consistent with established bank policies; and
 - (b) Validation ensures that the quantification systems used by the bank are sufficiently robust and provide assurance of the integrity of inputs, assumptions, processes and outputs. Specifically the independent validation process should provide enhanced assurance that the risk management methodology results in an operational risk capital charge that credibly reflects the operational risk profile of the bank. In addition to the quantitative aspects of internal validation, the validation of data inputs, methodology and outputs of operational risk models is important to the overall process.

¹ Legal risk includes, but is not limited to, exposure to fines, penalties, or punitive damages resulting from supervisory actions, as well as private settlements.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-8:	Qualitative Aspects

OM-8.1 Introduction (continued)

- **OM-8.1.5** The operational risk management function must be functionally independent of the risk generating business lines and will be responsible for the design, maintenance and ongoing development of the operational risk Framework ("Framework" - see also Paragraphs OM-8.2.12 and OM-8.2.13 for a description of the "Framework") within the bank.
- OM-8.1.6 For the purpose of Paragraph OM-8.1.5, "functionally independent" means that the risk management function cannot report hierarchically and/or functionally to any person or function that is directly responsible for risk generation.
- OM-8.1.7 The operational risk management function should include the operational risk measurement and reporting processes, risk committees and responsibility for board reporting. A key function of the operational risk management function is to challenge the business lines' inputs to, and outputs from, the bank's risk management, risk measurement and reporting systems. The operational risk management function should have a sufficient number of personnel skilled in the management of operational risk to effectively address its many responsibilities.
- **OM-8.1.8** The independent review functions are the audit and compliance functions and the staff occupying these functions must be competent and appropriately trained and not be involved in the development, implementation and operation of the operational risk Framework (for example, internal audit and compliance must not be involved with the setting of risk appetite or risk tolerance, but internal audit should be reviewing the robustness of the process of how these limits are set and and how they are adjusted in response to changing why circumstances). Internal Audit should independently verify that the Framework has been implemented as intended and is functioning effectively. Internal audit coverage should include opining on the overall appropriateness and adequacy of the Framework and the associated governance processes across the bank. Internal audit should not simply be testing for compliance with board approved policies and procedures, but should be evaluating whether the Framework meets organisational needs and supervisory expectations. More details on the Internal Audit Function and the Role of the Audit Committee are to be found in Chapter HC-3.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-8:	Qualitative Aspects

OM-8.2 Basic Indicator Approach

OM-8.2.1 Banks applying the basic indicator approach for capital adequacy purposes as detailed in Section CA-7.1 of Module CA (Capital Adequacy) are encouraged to comply with the principles set forth in this Section.

Fundamental Principles of Operational Risk Management

- **OM-8.2.2** Principle 1: The board of directors must take the lead in establishing a strong risk management culture. The board of directors and senior management must establish a corporate culture that is guided by strong risk management and that supports and provides appropriate standards and incentives for professional and responsible behaviour. In this regard, it is the responsibility of the board of directors to ensure that a strong operational risk management culture exists throughout the whole organisation.
- OM-8.2.3 Banks with a strong culture of risk management and ethical business practices are less likely to experience potentially damaging operational risk events and are better placed to deal effectively with those events that do occur. The actions of the board and senior management, and policies, processes and systems provide the foundation for a sound risk management culture. More details on the role of the board and <u>senior management</u> are to be found in Chapters HC-1, HC-2, and HC-6 as well as in Chapters CM-1 and OM-2.
- **OM-8.2.4** The board must establish a code of conduct or an ethics policy that sets clear expectations for integrity and ethical values of the highest standard and identify acceptable business practices and prohibited conflicts (see Section HC-2.2).
- OM-8.2.5 Clear expectations and accountabilities ensure that bank staff understand their roles and responsibilities for risk, as well as their authority to act. Strong and consistent senior management support for risk management and ethical behaviour convincingly reinforces codes of conduct and ethics, compensation strategies, and training programmes.
- **OM-8.2.6** Compensation policies must be aligned to the bank's statement of risk appetite and tolerance, long-term strategic direction, financial goals and overall safety and soundness. They must also appropriately balance risk and reward (see Chapter HC-5 concerning remuneration).
- OM-8.2.7 Banks should refer to the Financial Stability Board's Principles for Sound Compensation Practices, published in September 2009 regarding compensation policies.



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MODULE	OM:	Operational Risk Management	
CHAPTER	OM-8:	Qualitative Aspects	

OM-8.2 Basic Indicator Approach (continued)

- OM-8.2.8 <u>Senior management</u> should ensure that an appropriate level of operational risk training is available at all levels throughout the organisation. Training that is provided should reflect the seniority, role and responsibilities of the individuals for whom it is intended.
- **OM-8.2.9** Principle 2: Banks must develop, implement and maintain a <u>Framework</u> that is fully integrated into the bank's overall risk management processes. The <u>Framework</u> for operational risk management chosen by an individual bank will depend on a range of factors, including its nature, size, complexity and risk profile.
- OM-8.2.10 The fundamental premise of sound risk management is that the board of directors and bank management understand the nature and complexity of the risks inherent in the portfolio of bank products, services and activities. This is particularly important for operational risk, given that operational risk is inherent in all business products, activities, processes and systems.
- OM-8.2.11 A vital means of understanding the nature and complexity of operational risk is to have the components of the <u>Framework</u> fully integrated into the overall risk management processes of the bank. The <u>Framework</u> should be appropriately integrated into the risk management processes across all levels of the organisation including those at the group and business line levels, as well as into new business initiatives' products, activities, processes and systems. In addition, results of the bank's operational risk assessment should be incorporated into the overall bank business strategy development processes.
- **OM-8.2.12** The <u>Framework</u> must be comprehensively and appropriately documented in board of directors approved policies and must include definitions of operational risk and operational loss. Banks that do not adequately describe and classify operational risk and loss exposure may significantly reduce the effectiveness of their <u>Framework</u>.

OM-8.2.13

<u>Framework</u> documentation must clearly:

- (a) Identify the governance structures used to manage operational risk, including reporting lines and accountabilities;
- (b) Describe the risk assessment tools and how they are used;
- (c) Describe the bank's accepted operational risk appetite and tolerance (see Paragraphs OM-8.2.17 and OM-8.2.18), as well as thresholds or limits for inherent and residual risk, and approved risk mitigation strategies and instruments;
- (d) Describe the bank's approach to establishing and monitoring thresholds or limits for inherent and residual risk exposure;
- (e) Establish risk reporting and Management Information Systems (MIS);



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- (f) Provide for a common taxonomy of operational risk terms to ensure consistency of risk identification, exposure rating and risk management objectives;
- (g) Provide for appropriate independent review and assessment of operational risk; and
- (h) Require the policies to be reviewed whenever a material change in the operational risk profile of the bank occurs, and revised as appropriate.

Governance: The Board of Directors

Principle 3: The board of directors must establish, approve and periodically review the <u>Framework</u>. The board of directors must oversee <u>senior management</u> to ensure that the policies, processes and systems are implemented effectively at all decision levels.

OM-8.2.15

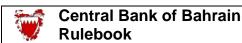
OM-8.2.14

The board of directors must:

- (a) Establish a management culture, and supporting processes, to understand the nature and scope of the operational risk inherent in the bank's strategies and activities, and develop comprehensive, dynamic oversight and control environments that are fully integrated into or coordinated with the overall <u>Framework</u> for managing all risks across the enterprise;
- (b) Provide senior management with clear guidance and direction regarding the principles underlying the <u>Framework</u> and approve the corresponding policies developed by senior management;
- (c) Regularly review the <u>Framework</u> to ensure that the bank has identified and is managing the operational risk arising from external market changes and other environmental factors, as well as those operational risks associated with new products, activities, processes or systems, including changes in risk profiles and priorities (e.g. changing business volumes);
- (d) Ensure that the bank's <u>Framework</u> is subject to effective independent review by audit or other appropriately trained parties such as the compliance function; and
- (e) Ensure that as best practice evolves, management is availing themselves of these advances.

OM-8.2.16

Strong internal controls are a critical aspect of operational risk management, and the board of directors must establish clear lines of management responsibility and accountability for implementing a strong control environment. The control environment must provide appropriate independence/separation of duties between operational risk management functions, business lines and support functions.



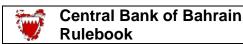
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- **OM-8.2.17** Principle 4: The board of directors must approve and review a risk appetite and tolerance statement for operational risk that articulates the nature, types and levels of operational risk that the bank is willing to assume.
- **OM-8.2.18** When approving and reviewing the risk appetite and tolerance statement, the board of directors must consider all relevant risks, the bank's level of risk aversion, its current financial condition and the bank's strategic direction. The risk appetite and tolerance statement should encapsulate the various operational risk appetites within a bank and ensure that they are consistent. The board of directors must approve appropriate thresholds or limits for specific operational risks, and an overall operational risk appetite and tolerance.
- **OM-8.2.19** The board of directors must regularly review the appropriateness of limits and the overall operational risk appetite and tolerance statement. This review must consider changes in the external environment, material increases in business or activity volumes, the quality of the control environment, the effectiveness of risk management or mitigation strategies, loss experience, and the frequency, volume or nature of limit breaches. The board must monitor management adherence to the risk appetite and tolerance statement and provide for timely detection and remediation of breaches.

Senior Management

OM-8.2.20

Principle 5: <u>Senior management</u> must develop for approval by the board of directors a clear, effective and robust governance structure with well defined, transparent and consistent lines of responsibility. Senior management is responsible for consistently implementing and maintaining throughout the organisation policies, processes and systems for managing operational risk in all of the bank's material products, activities, processes and systems consistent with the risk appetite and tolerance.



MODULE	OM:	Operational Risk Management
CHAPTER	OM-8:	Qualitative Aspects

OM-8.2.21 Senior management is responsible for establishing and maintaining robust challenge mechanisms and effective issue-resolution processes. These must include systems to report, track and, when necessary, escalate issues to ensure resolution. Banks must be able to demonstrate that the three lines of defence (as highlighted in Paragraph OM-8.1.3) approach is operating satisfactorily and to explain how the board and <u>senior management</u> ensure that this approach is implemented and operating in an appropriate and acceptable manner.

OM-8.2.22

- Senior management must translate the operational risk management <u>Framework</u> established by the board of directors into specific policies, processes and procedures that can be implemented and verified within the different business units. <u>Senior management</u> must clearly assign authority, responsibility and reporting relationships to encourage and maintain this accountability, and ensure that the necessary resources are available to manage operational risk in line with the bank's risk appetite and tolerance statement. Moreover, <u>senior management</u> must ensure that the management oversight process is appropriate for the risks inherent in a business unit's activity.
- **OM-8.2.23** Senior management must ensure that staff responsible for managing operational risk coordinate and communicate effectively with staff responsible for managing credit, market, and other risks, as well as with those in the bank who are responsible for the procurement of external services such as insurance risk transfer and outsourcing arrangements. Failure to do so could result in significant gaps or overlaps in a bank's overall risk management programme.
- OM-8.2.24 A bank's risk management function should be commensurate with the nature, size, complexity and risk profile of the bank's activities. The managers of the corporate operational risk management function should be of sufficient stature within the bank to perform their duties effectively, ideally evidenced by title commensurate with other risk management functions such as credit, market and liquidity risk.
- OM-8.2.25 <u>Senior management</u> should ensure that bank activities are conducted by staff with the necessary experience, technical capabilities and access to resources. Staff responsible for monitoring and enforcing compliance with the institution's risk policy should have authority independent from the units they oversee.



DM-8.2.26

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OM-8.2 Basic Indicator Approach (continued)

- A bank's governance structure should be commensurate with the nature, size, complexity and risk profile of its activities. When designing the operational risk governance structure, a bank must take the following into consideration:
 - (a) Committee structure;
 - (b) Committee composition; and
 - (c) Committee operation.
- OM-8.2.27 Sound industry practice for larger and more complex organisations with a central group function and separate business units is to utilise a board-created enterprise level risk committee for overseeing all risks, to which a management level operational risk committee reports. Depending on the nature, size and complexity of the bank, the enterprise level risk committee may receive input from operational risk committees by country, business or functional area. Smaller and less complex organisations may utilise a flatter organisational structure that oversees operational risk directly within the board's risk management committee.
- OM-8.2.28 Sound industry practice is for operational risk committees (or the risk committee in smaller banks) to include a combination of members with expertise in business activities and financial, as well as independent risk management (refer to Module HC for details on committee membership).
- OM-8.2.29 Committee meetings should be held at appropriate frequencies with adequate time and resources to permit productive discussion and decision-making. Records of committee operations should be adequate to permit review and evaluation of committee effectiveness.

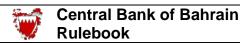
Risk Management Environment: Identification and Assessment

- **OM-8.2.30** Principle 6: <u>Senior management</u> must ensure the identification and assessment of the operational risk inherent in all material products, activities, processes and systems to make sure the inherent risks and incentives are well understood.
- OM-8.2.31 Risk identification and assessment are fundamental characteristics of an effective operational risk management system. Effective risk identification considers both internal factors (such as the bank's structure, the nature of the bank's activities, the quality of the bank's human resources, organisational changes and employee turnover) and external factors (such as changes in the broader environment and the industry and advances in technology). Sound risk assessment allows the bank to better understand its risk profile and allocate risk management resources and strategies most effectively.



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- OM-8.2.32 Examples of tools that may be used for identifying and assessing operational risk include:
 - (a) Audit Findings: While audit findings primarily focus on control weaknesses and vulnerabilities, they can also provide insight into inherent risk due to internal or external factors;
 - (b) Internal Loss Data Collection and Analysis: Internal operational loss data provides meaningful information for assessing a bank's exposure to operational risk and the effectiveness of internal controls. Analysis of loss events can provide insight into the causes of large losses and information on whether control failures are isolated or systematic. Banks may also find it useful to capture and monitor operational risk contributions to credit and market risk related losses in order to obtain a more complete view of their operational risk exposure;
 - External Data Collection and Analysis: External data elements consist of (c) gross operational loss amounts, dates, recoveries, and relevant causal information for operational loss events occurring at organisations other than the bank. External loss data can be compared with internal loss data, or used to explore possible weaknesses in the control environment or consider previously unidentified risk exposures;
 - Risk Assessments: In a risk assessment, often referred to as a Risk Self (d) Assessment (RSA), a bank assesses the processes underlying its operations against a library of potential threats and vulnerabilities and considers their potential impact. A similar approach, Risk Control Self Assessments (RCSA), typically evaluates inherent risk (the risk before controls are considered), the effectiveness of the control environment, and residual risk (the risk exposure after controls are considered). Scorecards build on RCSAs by weighting residual risks to provide a means of translating the RCSA output into metrics that give a relative ranking of the control environment;
 - Business Process Mapping: Business process mappings identify the key steps (e) in business processes, activities and organisational functions. They also identify the key risk points in the overall business process. Process maps can reveal individual risks, risk interdependencies, and areas of control or risk management weakness. They also can help prioritise subsequent management action;
 - Risk and Performance Indicators: Risk and performance indicators are risk (f) metrics and/or statistics that provide insight into a bank's risk exposure. Risk indicators, often referred to as Key Risk Indicators (KRIs), are used to monitor the main drivers of exposure associated with key risks. Performance indicators, often referred to as Key Performance Indicators (KPIs), provide insight into the status of operational processes, which may in turn provide insight into operational weaknesses, failures, and potential loss. Risk and performance indicators are often paired with escalation triggers to warn when risk levels approach or exceed thresholds or limits and prompt mitigation plans;



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- (g) Scenario Analysis: Scenario analysis is a process of obtaining expert opinion of business line and risk managers to identify potential operational risk events and assess their potential outcome. Scenario analysis is an effective tool to consider potential sources of significant operational risk and the need for additional risk management controls or mitigation solutions. Given the subjectivity of the scenario process, a robust governance <u>Framework</u> is essential to ensure the integrity and consistency of the process;
- (h) Measurement: Larger banks may find it useful to quantify their exposure to operational risk by using the output of the risk assessment tools as inputs into a model that estimates operational risk exposure. The results of the model can be used in an economic capital process and can be allocated to business lines to link risk and return; and
- (i) Comparative Analysis: Comparative analysis consists of comparing the results of the various assessment tools to provide a more comprehensive view of the bank's operational risk profile. For example, comparison of the frequency and severity of internal data with RCSAs can help the bank determine whether self assessment processes are functioning effectively. Scenario data can be compared to internal and external data to gain a better understanding of the severity of the bank's exposure to potential risk events.
- OM-8.2.33 The bank must ensure that the internal pricing and performance measurement mechanisms appropriately take into account operational risk. Where operational risk is not considered, risk-taking incentives might not be appropriately aligned with the risk appetite and tolerance.
- OM-8.2.34 Principle 7: <u>Senior management</u> must ensure that there is an approval process for all new products, activities, processes and systems that fully assesses operational risk.
- OM-8.2.35 In general, a bank's operational risk exposure is increased when a bank engages in new activities or develops new products; enters unfamiliar markets; implements new business processes or technology systems; and/or engages in businesses that are geographically distant from the head office. Moreover, the level of risk may escalate when new products activities, processes, or systems transition from an introductory level to a level that represents material sources of revenue or business-critical operations. A bank should ensure that its risk management control infrastructure is appropriate at inception and that it keeps pace with the rate of growth of, or changes to, products activities, processes and systems.



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OM-8.2.36

A bank must have policies and procedures that address the process for review and approval of new products, activities, processes and systems. The review and approval process should consider:

- (a) Inherent risks in the new product, service, or activity;
- (b) Changes to the bank's operational risk profile and appetite and tolerance, including the risk of existing products or activities;
- (c) The necessary controls, risk management processes, and risk mitigation strategies;
- (d) The residual risk;
- (e) Changes to relevant risk thresholds or limits; and
- (f) The procedures and metrics to measure, monitor, and manage the risk of the new product or activity.
- OM-8.2.37 The approval process should also include ensuring that appropriate investment has been made for human resources and technology infrastructure before new products are introduced. The implementation of new products, activities, processes and systems should be monitored in order to identify any material differences to the expected operational risk profile, and to manage any unexpected risks.

Monitoring and Reporting

- OM-8.2.38 Principle 8: <u>Senior management</u> must implement a process to regularly monitor operational risk profiles and material exposures to losses. Appropriate reporting mechanisms must be in place at the board, <u>senior management</u>, and business line levels that support proactive management of operational risk.
- OM-8.2.39 Banks are encouraged to continuously improve the quality of operational risk reporting. A bank should ensure that its reports are comprehensive, accurate, consistent and actionable across business lines and products. Reports should be manageable in scope and volume; effective decision-making is impeded by both excessive amounts and paucity of data.
- OM-8.2.40 Reporting should be timely and a bank should be able to produce reports in both normal and stressed market conditions. The frequency of reporting should reflect the risks involved and the pace and nature of changes in the operating environment. The results of these monitoring activities should be included in regular management and board reports, as should assessments of <u>Framework</u> performed by the internal audit and/or risk management and compliance functions. Reports generated by (and/or for) supervisory authorities should also be reported internally to <u>senior management</u> and the board, where appropriate.



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- OM-8.2.41 Operational risk reports may contain internal financial, operational, and compliance indicators, as well as external market or environmental information about events and conditions that are relevant to decision making. Operational risk reports should include:
 - (a) Breaches of the bank's risk appetite and tolerance statement, as well as thresholds or limits;
 - (b) Details of recent significant internal operational risk events and losses; and
 - (c) Relevant external events and any potential impact on the bank and operational risk capital.
- OM-8.2.42 Data capture and risk reporting processes should be analysed periodically with a view to continuously enhancing risk management performance as well as advancing risk management policies, procedures and practices.

Control and Mitigation

OM-8.2.43

Principle 9: Banks must have a strong control environment that utilises:

- (a) Policies, processes and systems;
- (b) Appropriate internal controls; and
- (c) Appropriate risk mitigation and/or transfer strategies.

OM-8.2.44

Internal controls must be designed to provide assurance that a bank will:

- (a) Have efficient and effective operations;
- (b) Safeguard its assets;
- (c) Produce reliable financial reports; and
- (d) Comply with applicable laws and regulations.
- OM-8.2.45 A sound internal control programme consists of five components that are integral to the risk management process: control environment, risk assessment, control activities, information and communication, and monitoring activities. These components are outlined in more detail in the Basel Committee paper "Framework for Internal Control Systems in Banking Organisations".



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- OM-8.2.46 Control processes and procedures should be established and banks should have a system in place for ensuring compliance with a documented set of internal policies concerning the risk management system. Principal elements of this could include, for example:
 - (a) Top-level reviews of the bank's progress towards the stated objectives;
 - (b) Verifying compliance with management controls;
 - (c) Review of the treatment and resolution of instances of non-compliance;
 - (d) Evaluation of required approvals and authorisations to ensure accountability to an appropriate level of management; and
 - (e) Tracking reports for approved exceptions to thresholds or limits, management overrides and other deviations from policy.
- OM-8.2.47 An effective internal control environment also requires appropriate segregation of duties. Assignments that establish conflicting duties for individuals, or a team without dual controls or other countermeasures may enable concealment of losses, errors or inappropriate actions. Therefore, areas of potential conflicts of interest should be identified, minimised, and subject to careful independent monitoring and review.
- OM-8.2.48 In addition to segregation of duties and dual controls, banks should ensure that other traditional internal controls are in place as appropriate to address operational risk. Examples of these controls include:
 - (a) Clearly established authorities and/or processes for approval;
 - (b) Close monitoring of adherence to assigned risk limits or thresholds;
 - (c) Safeguards for access to, and use of, bank assets and records;
 - (d) Appropriate staffing level and training to maintain expertise;
 - (e) Ongoing processes to identify business lines or products where returns appear to be out of line with reasonable expectations;
 - (f) Regular verification and reconciliation of transactions and accounts; and
 - (g) A vacation policy that provides for officers and employees being absent from their duties for a period of not less than two consecutive weeks.
- OM-8.2.49 Effective use and sound implementation of technology can contribute to the control environment. For example, automated processes are less prone to error than manual processes. However, automated processes introduce risks that must be addressed through sound technology governance and infrastructure risk management programmes.



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- OM-8.2.50 The use of technology related products, activities, processes and delivery channels exposes a bank to strategic, operational, and reputational risks and the possibility of material financial loss. Consequently, a bank should have an integrated approach to identifying, measuring, monitoring and managing technology risks. Sound technology risk management uses the same precepts as operational risk management and includes:
 - (a) Governance and oversight controls that ensure technology, including outsourcing arrangements, is aligned with and supportive of the bank's business objectives:
 - Policies and procedures that facilitate identification and assessment of risk; (b)
 - (c) Establishment of a risk appetite and tolerance statement as well as performance expectations to assist in controlling and managing risk;
 - (d) Implementation of an effective control environment and the use of risk transfer strategies that mitigate risk; and
 - (e) Monitoring processes that test for compliance with policy thresholds or limits.
- OM-8.2.51 Management should ensure the bank has a sound technology infrastructure that:
 - Meets current and long-term business requirements by providing sufficient (a) capacity for normal activity levels as well as peaks during periods of market stress;
 - (b) Ensures data and system integrity, security, and availability; and
 - Supports integrated and comprehensive risk management. (c)
- OM-8.2.52 Mergers and acquisitions resulting in fragmented and disconnected infrastructure, cost-cutting measures or inadequate investment can undermine a bank's ability to aggregate and analyse information across risk dimensions or the consolidated enterprise, manage and report risk on a business line or legal entity basis, or oversee and manage risk in periods of high growth. Management should make appropriate capital investment or otherwise provide for a robust infrastructure at all times, particularly before mergers are consummated, high growth strategies are initiated, or new products are introduced.
- OM-8.2.53 In those circumstances where internal controls do not adequately address risk and exiting the risk is not a reasonable option, management can complement controls by seeking to transfer the risk to another party such as through insurance. The board of directors should determine the maximum loss exposure the bank is willing and has the financial capacity to assume, and should perform an annual review of the bank's risk and insurance management programme.



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OM-8.2 Basic Indicator Approach (continued)

OM-8.2.54 Because risk transfer is an imperfect substitute for sound controls and risk management programmes, banks should view risk transfer tools as complementary to, rather than a replacement for, thorough internal operational risk control. Having mechanisms in place to quickly identify, recognise and rectify distinct operational risk errors can greatly reduce exposures. Careful consideration also needs to be given to the extent to which risk mitigation tools such as insurance truly reduce risk, transfer the risk to another business sector or area, or create a new risk (eg counterparty risk).

Role of Disclosure

OM-8.2.55 Principle 10: A bank's public disclosures must allow stakeholders to assess its approach to operational risk management.

- OM-8.2.56 A bank's public disclosure of relevant operational risk management information can lead to transparency and the development of better industry practice through market discipline. The amount and type of disclosure should be commensurate with the size, risk profile and complexity of a bank's operations, and evolving industry practice. See also Chapter HC-8 and Chapter PD-1 on disclosure requirements.
- OM-8.2.57 A bank should disclose its operational risk management Framework in a manner that will allow stakeholders to determine whether the bank identifies, assesses, monitors and controls/mitigates operational risk effectively.
- OM-8.2.58 A bank's disclosures should be consistent with how senior management and the board of directors assess and manage the operational risk of the bank.
- M-8.2.59 A bank must have a formal disclosure policy approved by the board of directors that addresses the bank's approach for determining what operational risk disclosures it will make and the internal controls over the disclosure process. In addition, banks must implement a process for assessing the appropriateness of their disclosures, including the verification and frequency of them.



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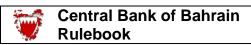
OM-8.3 Standardised Approach

OM-8.3.1 Banks applying standardised approach for capital adequacy purposes as detailed in section CA-7.1 of Capital Adequacy Module, must comply with the principles set out in Section OM-8.2 and in this Section. In order to qualify for use of the Standardised Approach, a bank must satisfy the CBB that, at a minimum:

- (a) Its board of directors and senior management, as appropriate, are actively involved in the oversight of the operational risk management framework;
- (b) It has an operational risk management system that is conceptually sound and is implemented with integrity; and
- (c) It has sufficient resources in the use of the approach in the major business lines as well as the control and audit areas.
- OM-8.3.2 The CBB will have the right to insist on a period of initial monitoring of a bank's Standardised Approach before it is used for regulatory capital purposes.
- OM-8.3.3 A bank must develop specific policies and have documented criteria for mapping gross income for current business lines and activities into the standardised framework. The criteria must be reviewed and adjusted for new or changing business activities as appropriate. Further guidance on business line mapping is set out in paragraph CA-7.1.8 of the Capital Adequacy Module.
- **OM-8.3.4**

A bank using the standardised approach must meet the following additional criteria:

(a) The bank must have an operational risk management system with clear responsibilities assigned to an operational risk management function. The operational risk management function is responsible for developing strategies to identify, assess, monitor and control/mitigate operational risk; for codifying bank-level policies and procedures concerning operational risk management and controls; for the design and implementation of the bank's operational risk assessment methodology; and for the design and implementation of a riskreporting system for operational risk;



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OM-8.3 Standardised Approach (continued)

- (b) As part of the bank's internal operational risk assessment system, the bank must systematically track relevant operational risk data including material losses by business line. Its operational risk assessment system must be closely integrated into the risk management processes of the bank. Its output must be an integral part of the process of monitoring and controlling the banks operational risk profile. For instance, this information must play a prominent role in risk reporting, management reporting, and risk analysis. The bank must have techniques for creating incentives to improve the management of operational risk throughout the bank;
- (c) There must be regular reporting of operational risk exposures, including material operational losses, to business unit management, senior management, and to the board of directors. The bank must have procedures for taking appropriate action according to the information within the management reports;
- (d) [This subparagraph was deleted in October 2012];
- (e) [This subparagraph was deleted in October 2012]; and
- (f) The bank's operational risk assessment system (including the internal validation processes) must be subject to regular review by external auditors and /or the CBB.