



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

EMS MANUAL



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Table of Contents

CHAPTER 1	INTRODUCTION.....	1
CHAPTER 2	OVERVIEW OF ISO 14001 INTERNATIONAL STANDARD	3
CHAPTER 3	ENVIRONMENTAL POLICY.....	6
CHAPTER 4	ENVIRONMENTAL ASPECTS	8
CHAPTER 5	LEGAL & OTHER REQUIREMENTS.....	11
CHAPTER 6	OBJECTIVES, TARGETS AND PROGRAMS	13
CHAPTER 7	STRUCTURE AND RESPONSIBILITY	16
CHAPTER 8	TRAINING, AWARENESS & COMPETENCE.....	19
CHAPTER 9	COMMUNICATION.....	22
CHAPTER 10	DOCUMENT CONTROL.....	25
CHAPTER 11	OPERATIONAL CONTROL.....	29
CHAPTER 12	EMERGENCY PREPAREDNESS AND RESPONSE.....	31
CHAPTER 13	MONITORING AND MEASURING	34
CHAPTER 14	NON-CONFORMANCE AND CORRECTIVE AND PREVENTIVE ACTION.....	38
CHAPTER 15	RECORDS	42
CHAPTER 16	AUDIT PROGRAM.....	44
CHAPTER 17	MANAGEMENT REVIEW.....	48



Chapter 1 Introduction

The interest from the international and domestic marketplace in buying wood products from certified forests has grown and many British Columbia forest products companies have obtained registration of their forest management programs. This has been supported by the provincial government, recognizing that forestry certification is voluntary and complementary to the standards of the province's Forest and Range Practices Act and Regulations.

The fundamental value of this environmental management system (EMS) is that it enables BC Timber Sales (BCTS) to arrange and focus its' management activities into an integrated, functioning system (including administration, planning and operations) with particular emphasis upon environmental impacts and risks. More specifically, the EMS encourages the following:

- corporate commitment to excellence in forest management, and related quality control
- development of a foundation to address resource management activities and practices
- application of continual improvement principles and procedures
- disclosure of objectives, targets and results (public, transparent)
- assignment of fiscal and human resources to appropriate activities
- assignment of personal responsibilities and accountabilities
- development of good record keeping processes and procedures
- demonstrating due diligence
- development of a base for engaging with other certification systems

The Director of Forestry has the overall responsibility for the EMS at the corporate level. This includes responsibility for establishing and managing a common system, collecting and analyzing data, auditing, and requiring corrective actions when needed. It also includes establishing and monitoring corporate performance targets and environmental management program, conducting corporate EMS management reviews and audit programs, as well as other responsibilities outlined in this manual.

The BCTS Timber Sales Office (TSO) will implement the BCTS EMS at the local level and the SFMP (if applicable).



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Scope

The scope of the EMS includes all licenses, permits or contracts awarded by the Timber Sales Manager in the following functional areas: Planning, Harvesting, Roads, and Silviculture. All activities undertaken by BA staff, licensees/permittees and contractors in the above functional areas are included. Table 004-3 (see Chapter 4) specifies the individual activities that are included in the scope of this EMS.

Updates

The Certification Officer is accountable for ensuring that the EMS Manual is maintained.

The official copy of the latest version of the EMS Manual will be maintained on the BCTS website. Users of the EMS should check the website to ensure that they have the current version.



Chapter 2 Overview of ISO 14001 International Standard

Overview

ISO 14001 is the environmental management system (EMS) standard developed by the International Organization for Standardization. The standard has resulted from the efforts of a technical committee representing 70 countries around the world. As illustrated in the diagram this standard is based on a circular system-flow model commencing with environmental policy, followed by planning, implementation and operation, checking and corrective action and closing the loop with management review.

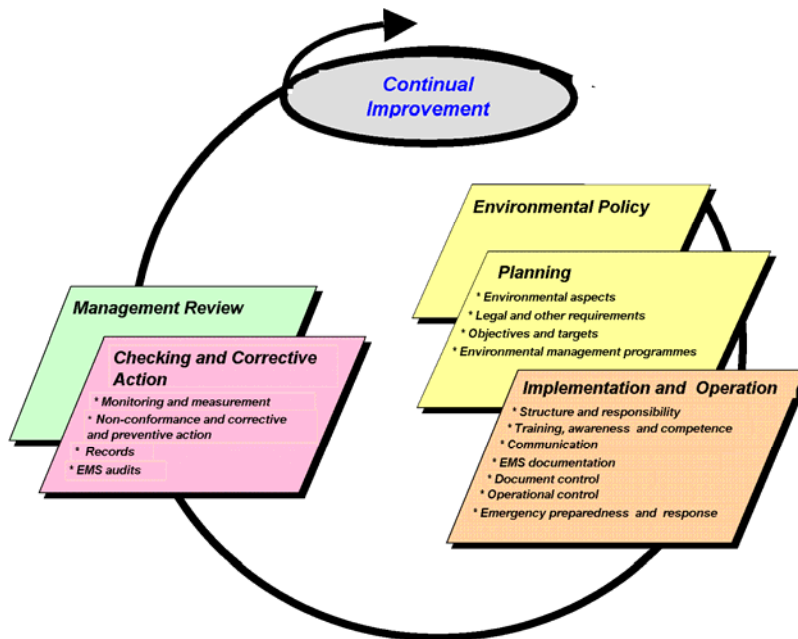


Figure 2.1: ISO System Model

* Diagram courtesy of ISO 14001 International Standard.

This standard is applicable to organizations wishing to:

- Implement, maintain, and improve an environmental management system;



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

- Assure conformance with the stated environmental policy;
- Demonstrate such conformance to others;
- Seek certification of the environmental management system by a third party registering organization.

ISO 14001 does not state specific environmental performance criteria. Instead, it enables an organization to formulate policies and objectives, taking into account legislative requirements and information about significant environmental aspects which it can control and over which it has an influence.

The guiding principles of the environmental management system are based on a cycle of PLAN-DO-CHECK-ACT and continual improvement of performance.

Organizations must demonstrate continual improvement to maintain certification once their EMS is registered.

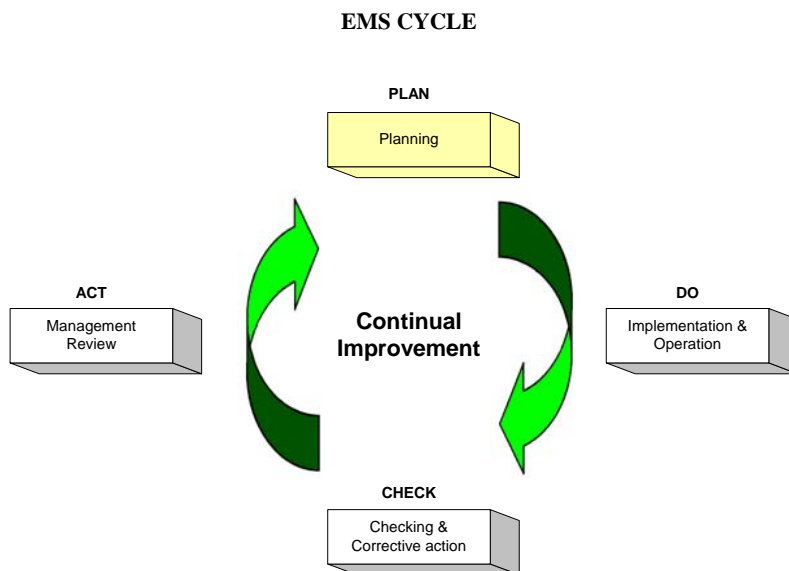


Figure 2.2: EMS Cycle



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

The five guiding principles of the EMS are:

Principle 1 – Commitment and Policy

An organization should define its environmental policy and ensure commitment to its environmental management system.

Principle 2 – Planning

An organization should formulate a plan to fulfil its environmental policy.

Principle 3 – Implementation

For effective implementation an organization should develop the capabilities and support mechanisms necessary to achieve its environmental policy, objectives and targets.

Principle 4 – Measurement and Evaluation

An organization should measure and evaluate its environmental performance.

Principle 5 – Review and Improvement

An organization should review and continually improve its environmental management system with the objective of improving its overall environmental performance.

Further information can be found by reference to the publications:

ISO 14001: 2004(E)	Environmental management systems – Requirements with guidance for use
ISO 14004: 2004(E)	Environmental management systems – General guidelines on principles, systems and support techniques.



Chapter 3 Environmental Policy

Purpose

To define and maintain an environmental policy that is appropriate to the activities of BC Timber Sales.

Scope

This Chapter defines the procedure for approval, adoption, and communication of the environmental policy.

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager

Procedure

Director of Forestry will:

- Approve an environmental policy and review it annually for its continuing suitability and appropriateness
- Ensure the policy is prominently displayed and available at BCTS Headquarters
- Communicate the environmental policy to all Timber Sales Managers

Timber Sales Manager will:

- Communicate the environmental policy to all BA staff, licensees / permittees / contractors, and the public
- Ensure the policy is prominently displayed and available at the TSO



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001 Reference

Clause 4.2 Environmental policy

Top management shall define the organization's environmental policy and ensure that, within the defined scope of its environmental management system, it

- a) is appropriate to the nature, scale and environmental impacts of its activities, products or services;*
- b) includes a commitment to continual improvement and prevention of pollution;*
- c) includes a commitment to comply with applicable legal requirements and with other requirements to which the organization subscribes which relate to its environmental aspects,*
- d) provides the framework for setting and reviewing environmental objectives and targets;*
- e) is documented, implemented and maintained*
- f) is communicated to all persons working for or on behalf of the organization, and*
- g) is available to the public.*

Related Documents

- Environmental policy



Chapter 4 Environmental Aspects

Purpose

Assess environmental elements in a consistent manner to determine the highest risk for BCTS activities and to ensure that these aspects are periodically reassessed.

Scope

This Chapter defines the procedures for addressing and maintaining a list of significant environmental aspects.

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- Certification Standards Officer (CSO) Team
- Local Committee

Procedure

Director of Forestry will:

- Approve an Aspect Risk Assessment Procedure (Table 004-2), Environmental Aspect Evaluation Form and corporate list of environmental aspects (Table 004-3)
- Address any changes to the corporate list of environmental aspects presented by the Certification Officer taking into consideration any information presented during the annual management review (Chapter 17)
- Approve the significant environmental aspects developed by each Business Area (BA) (Table 004-1)



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

Timber Sales Manager will:

- Ensure through the management review that environmental aspects are risk rated and maintained at the BA as per the procedure and changes are communicated to the Director of Forestry

Certification Officer will:

- Maintain the Significant Environmental Aspects Form (Table 004-1), Aspect Risk Assessment Procedure (Table 004-2) and Environmental Aspect Evaluation Form (Table 004-3) templates
- Periodically request CSOs and their local committees to conduct a full review of BA significant environmental aspects following the procedure described in the Aspect Risk Assessment Procedure (Table 004-2) utilizing the Significant Environmental Aspects Form (Table 004-1) and Environmental Aspect Evaluation Form (Table 004-3) templates

Certification Standards Officer (CSO) Team will:

- Submit recommendations for revision to the Aspect Risk Assessment Procedure (Table 004-2) and Environmental Aspect Evaluation Form (Table 004-3) to the Certification Officer as required for consideration in the corporate management review

Local Committee will:

- Conduct an overview of BA significant environmental aspects annually and update BA Tables 004-3 and 004-1 as required
- Conduct periodic reviews of the BA specific aspects and update, as required, the BA Environmental Aspect Evaluation (Table 004-3) and BA Significant Environmental Aspects (Table 004-1), based on information including:
 - Changes in legislation and the impact on the EMS
 - Changes in scale and technology of woodlands operations
 - New or modified activities
 - Evaluation of operational controls
 - Review of non conformance issues
 - Concerns expressed by interested parties, and
 - Criteria, objectives, and indicators of Sustainable Forest Management as applicable to the scope of the EMS

ISO 14001-2004 Reference

Clause 4.3.1 Environmental Aspects

The organization shall establish, implement and maintain a procedure(s)

- a. *To identify the environmental aspects of its activities, products and services within the defined scope of the environmental management system that it can control and those that it can influence taking into account planned or new developments, or new or modified activities, products and services and*
- b. *To determine those aspects that have or can have significant impact(s) on the environment (i.e. significant environmental aspects)*



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

The organization shall document this information and keep it up to date

Related Documents

- Significant Environmental Aspects Form (Table 004-1)
- Aspect Risk Assessment Procedure (Table 004-2)
- Environmental Aspect Evaluation Form (Table 004-3)



Chapter 5 Legal & Other Requirements

Purpose

To ensure that BA staff have access to legal and other requirements that are applicable to the BA operations.

Scope

This Chapter defines the procedure for the access, review, evaluation and communication of current pertinent legislation and other requirements or commitments.

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- BA CSO
- BA Supervisors

Procedure

Director of Forestry will:

- Ensure that staff have access to current pertinent legislation
- Communicate any other BCTS requirements or commitments to the relevant staff

Timber Sales Manager will:

- Determine and approve other requirements or commitments, such as Sustainable Forest Management polices and plans, that may apply to the BA
- Communicate any other BA requirements or commitments to the relevant BA staff



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Certification Officer will:

- Evaluate the relevancy of legislation and other requirements to BCTS activities and aspects and maintain this information within the Table 004-3 template
- Review changes to legal and other requirements or commitments and evaluate the need for changes to EMS documents
- Communicate changes to the Certification Standards Officers
- Identify and record corporately controlled documents on the Document Control Matrix (Table 010-1)

BA CSO and/or relevant BA Supervisors will:

- Monitor changes in legislation for relevancy to BA activities
- Identify and record local controlled documents on the Document Control Matrix (see Chapter 10), as required
- Communicate changes to legal and other requirements or commitments and changes in EMS procedures to appropriate staff and licensees / permittees / contractors using in-house communication, in-house training sessions, as applicable, and pre-work conferences

ISO 14001-2004 Reference

Clause 4.3.2 Legal and other requirements

The organization shall establish, implement and maintain a procedure(s)

- a. To identify and have access to the applicable legal requirements and other requirements to which the organization subscribes related to its environmental aspects, and*
- b. To determine how these requirements apply to its environmental aspects*

The organization shall ensure that these applicable legal requirements and other requirements to which the organization subscribes are taken into account in establishing, implementing and maintaining its environmental management system.

Related Documents

- Environmental Aspect Evaluation Form (Table 004-3)
- Document Control Matrix (Table 010-1)



Chapter 6 Objectives, Targets and Programs

Purpose

To ensure that BCTS establishes and maintains documented environmental objectives and targets consistent with its environmental policy and establishes and maintains program(s) for achieving its objectives and targets.

Scope

This Chapter provides the procedures for the development, approval, maintenance and review of the environmental objectives and targets, and the development of environmental management programs which ensure that the BCTS operations are consistent with:

- Objectives and targets established in the EMS
- Available resources and time frames for achieving the objectives and targets

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- BA CSO
- Local Committee

Procedure

Director or Forestry will:

- Approve corporate and local objectives and targets, and corporate environmental management program

Certification Officer will:

- Ensure that corporate objectives and targets and environmental management program are developed and reviewed annually and are consistent with the environmental policy and any direction from the Director of Forestry based on the results of the corporate management review (Chapter 17)



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

- Review and make recommendations for the approval of local objectives and targets to the Director of Forestry
- Maintain the EMP Template (Table 006-1).

Timber Sales Manager will:

- Approve local environmental management programs
- Implement local and corporate environmental management programs

BA CSO will:

- Maintain approved local objectives and targets in the BA EMP Template (Table 006-1)

Local Committee will:

- Establish local objectives in consideration of:
 - significant environmental aspects
 - legal requirements
 - sustainable forest management plans (if applicable)
 - technological options
 - financial, operational and strategic business requirements
 - views of interested parties and licensees / permittees / contractors, and continual improvement requirements
- Ensure local objectives are developed and reviewed periodically and are consistent with the environmental policy and any direction from the Director of Forestry based on the results of the management reviews (Chapter 17)
- Develop and maintain measurable targets to meet the objectives
- Develop environmental management programs (Table 006-1) that encompass the BA objectives and targets, which describe:
 - The action(s) required to achieve the target
 - Responsibility for achievement
 - Deadlines for completion

ISO 14001-2004 Reference

Clause 4.3.3 Objectives, targets, and programme(s)

The organization shall establish and maintain documented environmental objectives and targets, at each relevant function and levels within the organization.

The objectives and targets shall be measurable, where practicable, and consistent with the environmental policy, including the commitments to prevention of pollution, to compliance with applicable legal requirements and with other requirements to which the organization subscribes, and to continual improvement

When establishing and reviewing its objectives and targets, an organization shall take into account the legal requirements and other requirements to which the organization subscribes, and its significant environmental aspects. It shall also consider its technological options, its financial, operational and business requirements, and the views of interested parties

The organization shall establish and maintain a programme(s) for achieving its objectives and targets. Programme(s) shall include:



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

- a) *designation of responsibility for achieving objectives and targets at relevant functions and levels of the organization and,*
- b) *the means and time-frame by which they are to be achieved.*

Related Documents

- EMP Template (Table 006-1)



Chapter 7 Structure and Responsibility

Purpose

To ensure the roles, responsibilities and authorities of the environmental management system (EMS) are defined, documented and communicated in order to facilitate effective environmental management performance.

Scope

This Chapter provides the procedure for the designation of responsibility for all EMS roles within BCTS, including BA staff, all BCTS licensees / permittees / contractors and their forest workers.

Roles

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- Local Committee
- BA Supervisors
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Director of Forestry will:

- Ensure that the environmental management system requirements are established, implemented and maintained in accordance with the ISO 14001 Standard
- Document the assignment of roles and responsibilities (Table 007-1)



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Timber Sales Manager will:

- Ensure that the SFMP requirements are established implemented and maintained in accordance with relevant standards
- Report on the performance of the EMS to corporate senior management (Director of Forestry, Director of Operations) for review and as a basis for continual improvement of the EMS
- Document the assignment of roles and responsibilities at the BA
- Provide resources necessary to ensure effective environmental management and implementation of the SFMP as relevant

Certification Officer will:

- Provide leadership towards provincial and business area implementation of the EMS
- Update and maintain corporately controlled EMS documents
- Report the progress of the EMS to corporate senior management (Director of Forestry, Director of Operations) for review and as a basis for continual improvement of EMS

CSO Team will:

- Maintain a consistent corporate approach for the BCTS EMS by implementing BCTS policy and direction
- Periodically complete continuous improvement of the EMS under corporate direction

BA CSO will:

- Provide leadership towards business area implementation of the EMS

Local Committee will:

- Maintain a consistent corporate approach for the BCTS EMS by implementing BCTS policy and direction
- Periodically complete routine continuous improvement of the local EMS under direction of the Timber Sales Manager

BA Supervisors will:

- Communicate the roles and responsibilities to the people that report to them
- Ensure that their workers receive appropriate training according to Chapter 8; Training, Awareness, and Competence

BA Staff will:

- Ensure that operations conform to the EMS requirements for environmental field procedures and emergency response plans



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

Licensees / Permittees / Contractors will:

- Ensure that their operations conform to the EMS requirements for environmental field procedures and emergency response plans. They will ensure that their workers receive appropriate training according to Chapter 8, Training, Awareness, and Competence.

The reporting structure for the EMS is illustrated in the EMS Organization Chart (Table 007-1).

ISO 14001-2004 Reference

Clause 4.4.1 Resources, roles, responsibility and authority

Management shall ensure the availability of resources essential to establish, implement, maintain and improve the environmental management system. Resources include human resources and specialized skills, organizational infrastructure, technology and financial resources.

Roles, responsibilities and authorities shall be defined, documented and communicated in order to facilitate effective environmental management

The organizations top management shall appoint a specific management representative(s) who, irrespective of other responsibilities, shall have defined roles, responsibilities and authority for

- a. Ensuring that an environmental management system is established, implemented and maintained in accordance with the requirements of this International Standard,*
- b. Reporting to top management on the performance of the environmental management system for review, including recommendations for improvement*

Related Documents

- EMS Organization Chart (Table 007-1)
- EMS Manual chapters
- Environmental Operating Procedures
- Environmental Field Procedures
- Sustainable Forest Management Plan(s)
- EMS Checklist Guidance Documents
- Document Control Matrix (Table 010-1)



Chapter 8 Training, Awareness & Competence

Purpose

To ensure that all personnel with responsibilities within the scope of the BCTS EMS have an appropriate level of understanding of the principles of their roles within EMS and SFMP certifications, where applicable. To deliver training to personnel based on their EMS roles, and to verify the competency of persons performing roles within the EMS and SFMP.

Scope

This Chapter provides the procedures for the development, assessment and maintenance of training needs and responsibility awareness. The EMS training program includes:

- Awareness of their responsibility in meeting the requirements of the EMS and of the potential impact of their work on the environment
- Awareness of their responsibility in meeting the requirements of the SFMP(s)
- The skills and knowledge to competently fulfil their roles and to minimize the impact of BCTS operations and activities on the environment

Roles

(See Chapter 7: Structure and Responsibilities)

- Certification Officer
- CSO Team
- BA CSO
- BA Supervisors
- BA Staff
- Licensees / Permittees / Contractors



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Procedure

Certification Officer will:

- Provide leadership in the development and maintenance of corporate EMS training programs and materials

CSO Team will:

- Develop and maintain a corporate Training Needs Matrix template (Table 008-1)
- Develop and maintain an EMS corporate training package

BA CSO will:

- Provide leadership and EMS training information and materials to BCTS licensees / permittees / contractors
- Monitor the effectiveness of the training programs
- Maintain a set of EMS and SFM awareness training packages

BA Supervisors will:

- Maintain records of training
- Ensure that staff receive EMS and SFM awareness training appropriate to their position and the BA Training Needs Matrix

BA Staff will:

- Require BCTS licensees / permittees / contractors to train their workers in the EMS materials and other relevant areas as may be required by environmental legislation and keep records of their training
- Evaluate the competency of the licensees / permittees / contractors with regard to awareness of the potential environmental impacts of the tasks they perform
- Maintain the BA Training Needs Matrix (Table 008-1)
- Assess EMS and SFM awareness training needs for BA staff and prepare a schedule of training

Licensees / Permittees / Contractors will:

- Provide an appropriate level of EMS and SFM awareness training to their workers, and ensure that their workers meet the relevant training requirements of legislation
- Maintain records of required training on Table 008-1A or equivalent



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001 Reference

Clause 4.4.2 – Competence, training and awareness

The organization shall ensure that any person(s) performing tasks for it on its behalf that have the potential to cause a significant environmental impact(s) identified by the organization is (are) competent on the basis of appropriate education, training or experience, and shall retain associated records.

The organization shall identify training needs associated with its environmental aspects and its environmental management system. It shall provide training or take other action to meet these needs, and shall retain associated records.

The organization shall establish, implement and maintain a procedure(s) to make person working for it or on its behalf aware of

- a. The importance of conformity with the environmental policy and procedures and with the requirements of the environmental management system,*
- b. The significant environmental aspects and related actual or potential impacts associated with their work, and the environmental benefits of improved personal performance,*
- c. Their roles and responsibilities in achieving conformity with the requirements of the environmental management system and,*
- d. The potential consequences of departure from specified procedures*

Related Documents

- EMS Training packages
- Training Matrix (Table 008-01)
- LPC Training Summary (Table 008-1A)



Chapter 9 Communication

Purpose

To ensure that communication procedures are established and maintained which convey environmental expectations and performance regarding EMS and SFM certifications.

Scope

This Chapter provides the procedure and defines the responsibility for internal and external communication of environmental issues and SFM issues and performance, where applicable.

Roles

(See Chapter 7: Structure and Responsibility)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- Local Committee
- BA Supervisors
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Internal Communication

Director of Forestry will:

- Provide direction to the Certification Officer for the ongoing maintenance of the EMS
- Communicate the environmental policy and other relevant policies to Timber Sales Managers

Timber Sales Manager will:

- Provide direction to the BA CSO for the ongoing maintenance of local EMS documents and the SFMP(s)



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

- Communicate the environmental policy to all BA staff, licensees / permittees / contractors, and the public

BA Supervisors:

- All BA Supervisors with a role in the EMS and SFMP will communicate the roles and responsibilities to the people that report to them

BA Staff will:

- Communicate on environmental issues internally and to various licensees / permittees / contractors as required by Environmental Operating Procedures (EOP) (Chapter 11 Operational Control)
- Communicate on incidents of potential / alleged non-compliance and non-conformance to the BA CSO
- Document and evaluate input from the general public and interested parties about the EMS environmental activities

Certification Officer will:

- Ensure communication of any change in the EMS Manual and notable legislation to the Director of Forestry

CSO Team will:

- Meet periodically to review environmental performance and related issues
- Provide advice to the Certification Officer for the ongoing management of the EMS
- Communicate status of environmental programs to the Certification Officer

Local Committee will:

- Meet periodically to review environmental performance and related issues
- Provide advice to the BA CSO for the ongoing management of the EMS and SFMP
- Communicate status of environmental management programs to the BA CSO

BA CSO will ensure:

- Communication of any change in the EMS Manual, SFMP and notable legislation to the Timber Sales Manager
- Communication of changes to legal and other requirements or commitments and changes in EMS procedures and SFMP to appropriate staff and licensees / permittees / contractors through in-house communication, in-house training sessions as applicable, and pre-work conferences

Licensees / Permittees / Contractors will:

- Communicate on Environmental issues to BA staff and to their employees as required by Environmental Field Procedures (EFP)



BC Timber Sales

ENVIRONMENTAL MANAGEMENT SYSTEM

External Communication

Director of Forestry will:

- Ensure that the environmental policy is made available corporately to the public and interested parties

Timber Sales Manager will:

- Ensure that the environmental policy is made available to the public and interested parties
- Where relevant, ensure that the SFM policy, the SFMP and annual / audit reports on the progress of the SFMP are made available to the public and interested parties

Certification Officer will:

- Respond in a timely manner, in an appropriate way, to all corporate public inquiries about the EMS and relevant environmental activities

BA Staff will:

- Ensure the complete list of BA significant environmental aspects (Table 004-1) for the EMS is posted and maintained on BA external (public) web sites
- Where relevant, ensure that the SFMP and annual reports on the progress of the SFMP are posted and maintained on the BA Intranet sites
- Respond in a timely manner, in an appropriate way, to all public inquiries about SFM and EMS
- Refer any local public inquiries about the EMS at the corporate level to the Certification Officer

ISO 14001 Reference

Clause 4.4.3 Communication

With regard to its environmental aspects and environmental management system, the organization shall establish, implement and maintain a procedure(s) for

- internal communication among the various levels and functions of the organization;*
- receiving, documenting and responding to relevant communication from external interested parties.*

The organization shall decide whether to communicate externally about its significant environmental aspects, and shall document its decision. If the decision is to communicate, the organization shall establish and implement a method(s) for this external communication

Related Documents

- Environmental Policy
- Environmental Operating Procedures, Environmental Field Procedures
- BA Significant Environmental Aspects (Table 004-1)



Chapter 10 Document Control

Purpose

To ensure that BCTS establishes and maintains procedures for controlling documents of importance to the design, implementation and operation of the EMS and/or SFMP, where applicable.

Scope

This Chapter provide defines controlled documents, their creation, maintenance and distribution.

Roles

(See Chapter 7: Structure and Responsibility)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- BA CSO
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Defining Controlled Documents

All documents that describe core elements of the EMS and/or the SFM, or which are necessary for the planning and execution of the EMS and/or SFM, shall be defined as controlled documents. These shall include at a minimum:

- The environmental policy and other relevant policies
- Procedures and other documented operational controls necessary to conform to the policy and to achieve the objectives and targets
- Procedures to monitor and measure operations and activities that can have significant impact on the environment
- Procedures to assess compliance with legal and other requirements
- External documents that govern activities within the EMS and/or SFM.



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

All controlled documents shall be identified along with their associated levels of consistency in Table 010-1. Provincial consistency levels are:

Level 1	Provincial Core Documents (consistent format and content). Mandatory Use where applicable.
Level 2	Provincial Core Documents with Supplemental Content (consistent format and content with some BA discretionary content). Mandatory Use where applicable.
Level 3	Provincial Supplements (consistent format and content with some BA discretionary content). Discretionary Use.
Level 4	Local Supplements (format content and use at BA discretion)

Creating, Modifying and Approving Controlled Documents

Director of Forestry will:

- Approve corporately controlled EMS documents

Timber Sales Manager will:

- Ensure corporate levels of consistency are maintained
- Approve local controlled documents, if applicable

Certification Officer will:

- Provide leadership in review of controlled documents, including the modification, deletion and construction of corporately controlled documents
- Record effective dates of the corporate controlled documents on Table 010-1
- Record effective dates on the controlled documents

CSO Team will:

- Periodically review controlled documents and make recommendations for modifying, deleting or constructing provincially controlled documents

Maintaining Controlled Documents

All controlled documents will be subject to periodic review as a result of one or more the following:

- Audits
- Document reviews made following a change to a related or linked controlled document
- Document reviews made following a change to legislation or other commitments of the company, and/or
- Management Review



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Document Distribution

The most current version of all controlled documents shall exist in electronic form, and shall be made available to those who require them on the website.

Certification Officer will:

- Communicate to the BA CSOs to enable updates to the BA EMS network when controlled documents have been revised and/or approved for implementation
- Retain obsolete documents in archives as per the requirements of the Ministry Records Management Standards and Procedures
- Maintain the corporate EMS Intranet site

BA CSO will:

- Ensure the maintenance of the BA EMS network and/or internet website
- Retain obsolete documents in archives as per the requirements of the Ministry Records Management Standards and Procedures
- Ensure the maintenance of the SFMP network and/or internet website
- Facilitate the distribution of controlled documents to ensure that out-of-date or obsolete versions of these documents are removed from use

BA Staff will:

- View the documents on the web site and may print copies of various portions for their use. Printed versions of the controlled documents are not official versions and are considered uncontrolled documents. Holders of printed controlled documents must ensure that they are current and discard obsolete versions.

Licensees / Permittees / Contractors will:

- View the documents on the web site and may print copies of various portions for their use. Printed versions of the controlled documents are not official versions and are considered uncontrolled documents. Holders of printed controlled documents must ensure that they are current and discard obsolete versions.



BC Timber Sales ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001-2004 Reference

The standards for EMS documentation and document control are in two sections of the ISO 14001 document:

Clause 4.4.4 Documentation

The environmental management system documentation shall include

- a. The environmental policy, objectives and targets,*
- b. Description of the scope of the environmental management system,*
- c. Description of the main elements of the environmental management system and their interaction, and reference to related documents,*
- d. Documents, including records, required by this International Standard, and*
- e. Documents, including records, determined by the organization to be necessary to ensure the effective planning, operation and control of processes that relate to its significant environmental aspects*

Clause 4.4.5 Control of Documents

Documents required by the environmental management system and by this International Standard shall be controlled. Records are a special type of document and shall be controlled in accordance with the requirements given in 4.5.4.

The organization shall establish, implement and maintain a procedure(s) to

- a. Approve documents for adequacy prior to issue,*
- b. Review and update as necessary and re-approve documents,*
- c. Ensure that changes and the current revision status of documents are identified,*
- d. Ensure that relevant versions of applicable documents are available at points of use,*
- e. Ensure that documents remain legible and readily available,*
- f. Ensure that documents of external origin determined by the organization to be necessary for the planning and operation of the environmental management system are identified and their distribution controlled, and*
- g. Prevent the unintended use of obsolete documents and apply suitable identification to them if they are retained for any purpose*

Related Documents

- Document Control Matrix (Table 010-1)



Chapter 11 Operational Control

Purpose

To ensure that operational control procedures are established and maintained for activities associated with the significant environmental aspects and consistent with the environmental policy, objectives and targets and SFM requirements.

Scope

This Chapter identifies operational controls for the EMS and provides the procedures for their development and maintenance.

Roles

(See Chapter 7: Structure and Responsibility)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Operational controls for the EMS include:

- Environmental operating procedures (EOP) that provides direction to BCTS BA staff and licensees / permittees / contractors
- Environmental field procedures (EFP) that provide direction to BCTS BA staff, licensees / permittees / contractors and their forest workers
- Forms and checklists which are used by BCTS BA staff to monitor environmental performance
- Environmental Emergency Response Plans



BC Timber Sales ENVIRONMENTAL MANAGEMENT SYSTEM

Director of Forestry will:

- Approve any new or revised corporately controlled EMS operational controls

Timber Sales Manager will:

- Approve any new or revised local operational controls
- Assign responsibility for tasks within the EOPs

Certification Officer ensures that:

- All required corporately controlled EMS operational controls are developed and maintained according to the requirements of this manual

CSO Team will:

- Review and make recommendations on any new or revised corporately controlled EMS operational controls

BA CSO ensures that:

- Operational controls are available to the respective staff, and licensees / permittees / contractors

BA Staff and Licensees / Permittees / Contractors are:

- Responsible for implementing approved operational controls

ISO 14001 Reference

Clause 4.4.6 Operational Control

The organization shall identify and plan those operations that are associated with the identified significant environmental aspects consistent with its environmental policy, objectives and targets, in order to ensure that they are carried out under specified conditions, by

- a. Establishing, implementing and maintaining a documented procedure(s) to control situations where their absence could lead to deviation from the environmental policy, objectives and targets, and*
- b. Stipulating the operating criteria in the procedure(s), and*
- c. Establishing, implementing and maintaining procedures related to the identified significant environmental aspects of goods and services used by the organization and communicating applicable procedures and requirements to suppliers, including contractors*

Related Documents

- Environmental Operating Procedures (EOP)
- Environmental Field Procedures (EFP)
- Environmental Emergency Response Plans (eERP)
- Forms and checklists



Chapter 12 Emergency Preparedness and Response

Purpose

To ensure that the BC Timber Sales establishes and maintains procedures to identify the potential for appropriate response to environmental incidents and emergency situations, and for preventing and mitigating the environmental impacts that may be associated with them.

To ensure all BC Timber Sales staff and licensees, permittees and contractors are able to respond to incidents and emergency situations in an appropriate manner to minimize environmental damage.

Scope

This Chapter provides the procedures for the development, maintenance, evaluation and approval of the environmental Emergency Response Plan.

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO / Local Committee
- Licensees / Permittees / Contractors

Procedure

Director of Forestry will:

- Approve environmental Emergency Response Plan templates (eERP)

Timber Sales Manager will:

- Implement the environmental emergency response program at the Business Area level and ensure staff are conforming with the requirements of the program
- Ensure that the environmental emergency response procedures are tested at a minimum 3 times per year within the Business Area



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Certification Officer will:

- Establish and maintain environmental eERP templates including relevant preparedness and response information for:
 - Fire preparedness and response
 - Erosion preparedness and response
 - Spill preparedness and response
- Ensure that tests of the emergency contact information within the eERP templates are completed at prescribed intervals

BA CSO/ Local Committee will:

- Make available the eERP to staff and clients
- Ensure that staff is appropriately trained in environmental emergency preparedness and response
- Provide Business Area input into the maintenance of the eERP templates at the CSO Team
- Test local environmental emergency response procedures and contact information periodically

CSO Team will:

- Periodically review and evaluate the efficiency and content of the eERP, including the results of eERP testing and incidents

Licensees / Permittees / Contractors will:

- Establish and maintain an eERP at the worksite and conduct periodic drills as required to ensure that an adequate level of preparedness is maintained at all times and maintain records for BA staff
- Conduct test(s) of environmental emergency preparedness and response program as required and provide and maintain records for BA staff
- Submit copies of reports of environmental incidents (CHK-009 Incident Report form) to BA staff
- Ensure that all employees are aware of their responsibilities under the eERP



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001-2004 Reference

Clause 4.4.7 Emergency Preparedness and Response:

The organization shall establish, implement and maintain a procedure(s) to identify potential emergency situations and potential accidents that can have an impact(s) on the environment and how it will respond to them.

The organization shall respond to actual emergency situations and accidents and prevent or mitigate associated adverse environmental impacts.

The organization shall periodically review and, where necessary, revise its emergency preparedness and response procedures, in particular, after the occurrence of accidents or emergency situations.

The organization shall also periodically test such procedures where applicable.

Related Documents

- Environmental Emergency Response Plan
- CHK-009 Incident Report Form



Chapter 13 Monitoring and Measuring

Purpose

To ensure that the BA maintains procedures for monitoring operations and activities for EMS and SFMP requirements, where applicable. Monitoring is a key activity to help ensure achievement of objectives and targets, and satisfy the environmental policy. It also provides the basis for determining if the EMS and SFMP are working appropriately, and the basis for securing continual improvement.

Scope

This Chapter provides the procedures for the monitoring of conformance with environmental operating procedures (EOP), environmental field procedures (EFP), compliance with legal requirements and SFM plans, progress on completing environmental management programs, and achievement of EMS and SFM objectives and targets.

Roles

(See Chapter 7: Structure and Responsibilities)

- Director of Forestry
- Timber Sales Manager
- Certification Officer
- BA CSO
- BA Supervisor
- Local Committee
- BA Staff
- Licensees / Permittees / Contractors



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Procedure

Monitoring of Legal Compliance and Conformance with Operational Controls

Director of Forestry will:

- In the course of the corporate Management Review, assess the compliance, conformance, EMP status, and performance monitoring information provided by the Certification Officer

Timber Sales Manager will:

- In the course of the local Management Review, assess the compliance, conformance, EMP status, and performance monitoring information provided by the Local Committee

Certification Officer will:

- Prepare a summary of corporate environmental management program implementation and performance related to the corporate objectives and targets on Table 006-1.
- Communicate summary of BCTS compliance, conformance, EMP status, and performance monitoring status to the Director of Forestry annually

CSO Team will:

- Prepare recommendations for EMS improvements based on their review of compliance and conformance data prior to the corporate management review

BA Supervisors will:

- Assessing conformance with EOPs and other EMS requirements for those BA staff reporting to them.
- Tracking instances of potential non-compliance and/or significant non-conformance in a tracking system, where a significant non-conformance is one that:
 - cannot be resolved in a timely manner, and/or
 - resulted or could result in environmental impact related to the significant environmental aspects, and/or where the information is relevant for performance monitoring purposes (e.g. trending)

Licensees / Permittees / Contractors will:

- Monitor their activities for conformance with:
 - Project Plan
 - EMS/SFM requirements
 - Contractual obligations
 - Compliance to legal requirements

BA staff will:

- Monitor Licensees / Permittees / Contractors, other BA staff and BCTS Operations by:
 - Conducting inspections of BA licensees / permittees / contractors operations. Inspections are conducted at a frequency that reflects the potential risk of the



BC Timber Sales **ENVIRONMENTAL MANAGEMENT SYSTEM**

project, as guided by the risk assessment framework. In the course of conducting inspections, assess:

- Compliance with relevant environmental legislation
- Conformance with the operational plan / project plan, and
- Conformance with the requirements of the EMS/SFMP as appropriate depending on the phase of the project
- Documenting potential non-compliance information resulting from these inspections on the appropriate checklist

Note: Non-compliances of licensees or permittees can only be determined by statutory decision or prosecution. A non-compliance noted on an inspection form is only a potential non-compliance

- Documenting Licensees / Permittees / Contractors non-conformance information on the appropriate checklist.

Local Committee / BA CSO will:

- Communicate status of environmental management program to the TSM at least annually
- Prepare recommendations for EMS improvements based on their review of compliance and conformance data prior to the Management Review
- Prepare a summary of the status of local environmental management program implementation and performance measures related to the objectives and targets on EMP Template (Table 006-1)
- Review the information in the compliance and conformance tracking system (e.g.: for trending, new or developing issues, etc.)
- Review compliance information provided by regulatory agencies (e.g.: MoE, C&E)
- Communicate summary of local compliance, conformance, EMP status, and performance monitoring status to the Certification Officer annually, if required

ISO 14001 Reference

Clause 4.5.1 Monitoring and measurement

The organization shall establish, implement and maintain a procedure(s) to monitor and measure, on a regular basis, the key characteristics of its operation that can have a significant environmental impact. The procedure(s) shall include the documenting of information to monitor performance, applicable operational controls and conformity with the organization's environmental objectives and targets.

The organization shall ensure that calibrated or verified monitoring and measurement equipment is used and maintained and shall retain associated records.

Clause 4.5.2 Evaluation of compliance

4.5.2.1 Consistent with its commitment to compliance, the organization shall establish, implement and maintain a procedure(s) for periodically evaluating compliance with applicable legal requirements.

The organization shall keep records of the results of the periodic evaluations.



BC Timber Sales ***ENVIRONMENTAL MANAGEMENT SYSTEM***

4.5.2.2 The organization shall evaluate compliance with other requirements to which it subscribes. The organization may wish to combine this evaluation with the evaluation of legal compliance referred to in 4.5.2.1 or to establish a separate procedure(s)

The organization shall keep records of the results of the periodic evaluations.

Related Documents

- EMP Template (Table 006-1)
- BCTS Inspection Guidance Documents
- Environmental Operating Procedures (EOP)
- Environmental Field Procedures (EFP)



Chapter 14 Non-conformance and Corrective and Preventive Action

Purpose

To ensure that BCTS establishes and maintains procedures for handling and investigating potential non-compliance and non-conformance, taking action to mitigate any impacts and to initiate and complete corrective and preventive action.

Scope

This Chapter provides procedures for the investigation, monitoring and reporting of potential non-compliance with legal requirements, SFM requirements and non-conformance with Environmental Field Procedures and Environmental Operating Procedures.

Roles

(See Chapter 7: Structure and Responsibility)

Director of Forestry
Timber Sales Manager
Certification Officer
BA Supervisors
BA Staff
BA CSO
Local Committee

Procedure

Director of Forestry will:

- Approve a consistent approach to handling and investigating potential non-compliances and significant non-conformances
- Ensure that corrective and preventive action are appropriate to mitigate any impacts
- Ensure that preventive actions are appropriate to reduce the likelihood of similar incidences



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Certification Officer will:

In relation to conformance with the Environmental Management Program(s):

- Assess achievement of the corporate EMP, including progress towards achievement of the objectives and targets, annually. If the targets or activities have not been completed or are not on track, and the objectives may not be met, determine the root cause by identifying the impediments to achievement of the objectives and targets
- Document achievement of the corporate objectives and targets on the corporate EMP Template (Table 006-1)
- Determine corrective or preventive actions to ensure achievement of the corporate objectives and targets

Timber Sales Manager will:

- Ensure that local corrective and preventive action are appropriate to mitigate any impacts
- Ensure that local preventive actions are appropriate to reduce the likelihood of similar incidences

BA Supervisors will:

- Discuss with staff to determine the extent of the non-conformance
- Provide guidance regarding corrective and preventative actions

BA staff will:

In relation to potential non-compliance with legal requirements and non-conformance with this EMS:

- Monitor activities in accordance with Chapter 13 - Monitoring and Measurement
- Investigate instances of potential non-compliance and/or significant non-conformance
- The investigation may entail discussions with the supervisor or other workers to determine the extent of the non-conformance
- Provide guidance regarding corrective and preventative actions

In relation to Incident Reports (CHK-009) received from Licensees / Permittees / Contractors, or notification of an incident received from another source

- Determine the root cause of the incident
- Determine if there are any requirements to report the incident as a potential non-compliance to a regulatory agency. The BA staff will determine if corrective or preventive actions are required and will initiate the corrective/preventive action accordingly
- Document actions, recommendations and deadline for completion in the EMS tracking system. Recommendations that involve revising the EMS/SFMP must be passed to the CSO for consideration



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

- Confirm and document that the corrective or preventive action has been taken before the deadline

Local Committee will:

In relation to potential non-compliance with legal requirements and non-conformance with this EMS as tracked in the tracking system:

- Periodically review the compliance and conformance results
- Identify repetitive or significant non-conformances and determine if further preventive and corrective action are required, by considering the identified root causes, the pervasiveness and severity of non-conformance and documented input on corrective/preventive action taken
- Document actions, recommendations and deadline for completion in the EMS tracking system. Recommendations that involve revising the EMS/SFMP must be passed to the CSO for consideration
- Track the completion of the corrective or preventive action. Document the completion of the corrective and preventive action in the EMS tracking system
- Periodically review the effectiveness of corrective or preventive actions

BA CSO will:

In relation to conformance with the Environmental Management Program(s):

- Assess achievement with the local EMPs, including progress towards achievement of the local objectives and targets, annually. If the targets or activities have not been completed or are not on track, and the objectives may not be met, determine the root cause by identifying the impediments to achievement of the local objectives and targets
- Document achievement of local objectives and targets on the EMP Template (Table 006-1)
- Determine corrective or preventive actions to ensure achievement of the local objectives and targets

ISO 14001 Reference

Clause 4.5.3 Nonconformity, corrective action and preventative action

The organization shall establish, implement and maintain a procedure(s) for dealing with actual and potential nonconformity(ies) and for taking corrective action and preventive action. The procedure(s) shall define requirements for

- a. Identifying and correcting nonconformity(ies) and taking action(s) to mitigate their environmental impacts,*
- b. Investigating nonconformity(ies), determining their cause(s) and taking actions in order to avoid their recurrence,*
- c. Evaluating the need for action(s) to prevent nonconformity(ies) and implementing appropriate actions designed to avoid their occurrence,*
- d. Recording the results of corrective action(s) and preventive action(s) taken, and*
- e. Reviewing the effectiveness of corrective action(s) and preventive action(s) taken*



BC Timber Sales ***ENVIRONMENTAL MANAGEMENT SYSTEM***

Actions taken shall be appropriate to the magnitude of the problems and the environmental impacts encountered.

The organization shall ensure that any necessary changes are made to environmental management system documentation.

Related Documents

- CHK-009 Incident Report Form
- EMP Template (Table 006-1)
- BCTS Inspection Guidance Documents



Chapter 15 Records

Purpose

To ensure that the BCTS identifies, maintains and disposes of all records generated by the EMS and SFMP from implementation of the procedures in the relevant documentation.

Scope

This Chapter provides the procedure for the administration and control of all corporate and local EMS as well as SFMP records, where applicable.

Roles

(See Chapter 7: Structure and Responsibility)

- Director of Forestry
- Timber Sales Manager
- Records Clerk

Procedure

A government-wide records management program is mandated and administered via policies, standards, and guidelines established by BC Information Management Services (BCIMS). The *Document Disposal Act* (administered by BCIMS) is the enabling legislation.

In the Ministry of Forests and Range, records management is mandated by ministry policy. This policy delegates authority to the ministry Records Officer to administer the ministry records management program.

EMS and SFMP records administration and control:

Director of Forestry will:

- Ensure that all required corporate records are managed as mandated



BC Timber Sales ***ENVIRONMENTAL MANAGEMENT SYSTEM***

Timber Sales Managers will:

- Ensure that all required local records are managed as mandated

Records Clerks are responsible for:

- Receiving, sorting, filing, maintaining and disposing of correspondence and documents relating to the EMS and SFMP, in accordance with Ministry of Forests and Range Records Management Standards and Procedures, within the Operational Records Classification System (ORCS/ARCS)
- Ensuring that records are readily retrievable and protected against damage, deterioration or loss
- Implementing, maintaining and monitoring records management systems and operations according to government policy standards and procedures (see Ministry of Forests and Range Records Management Standards and Procedures)
- Scheduling records identified as inactive for disposal according to the timetable applicable for each records classification. Records are disposed of under the Document Disposal Act

ISO 14001 Reference

Clause 4.5.4 Control of Records

The organization shall establish and maintain records as necessary to demonstrate conformity to the requirements of its environmental management system and of this International Standard, and the results achieved.

The organization shall establish, implement and maintain a procedure(s) for the identification, storage, protection, retrieval, retention and disposal of records

Records shall be and remain legible, identifiable and traceable.

Related Documents

- Ministry of Forests and Range Records Management Standards and Procedures.



Chapter 16 Audit Program

Purpose

To establish and maintain an audit program to determine if the EMS and SFMP, where applicable, are being properly implemented and maintained, and are effective.

To provide information to the Director of Forestry on the environmental performance of the corporate EMS program and to the Timber Sales Manager on the environmental performance of the EMS and SFMP at the BA level.

Scope

This Chapter provides the procedure and defines the responsibility for external and internal audits of the EMS and SFMP, where applicable.

Roles

(See Chapter 7: Structure and Responsibility)

- Director of Forestry
- Timber Sales Manager (TSM)
- Certification Officer
- CSO Team
- BA CSO
- Local Committee
- Lead Auditor

Procedure

Planning

Director of Forestry will:

- Allocate corporate resources and approve BCTS provincial external and internal audit programs.

Certification Officer will:

- Establish and maintain provincial external and internal audit programs



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

- Establish and maintain provincial external audit plans, lead the development of annual provincial internal audit plans, including detailed scope and schedules.

Lead Internal Auditor will:

- Submit an internal audit protocol annually to the Certification Officer for approval

CSO Team will:

- Establish and maintain a provincial internal audit plan annually, including detailed scope and schedules
- Assist in the development of external audit plans and schedules
- Conduct periodic business and continuous improvement reviews of the audit program, when required

Timber Sales Manager will:

- Ensure that an internal audit of the EMS, and SFMP if required, is conducted at the BA as described in the Provincial Internal Audit Program and Plan

BA CSO will:

- Participate in the preparation and maintenance of annual provincial internal audit plans, detailing the scope and schedules, and provide recommendations for budgets and resources at the BA level

Implementation

Timber Sales Manager will:

- Allocate resources for the execution of BA internal and external audits

BA CSO will:

- Work with the Certification Officer and CSO Team to schedule external and internal audits and ensure that the purpose and scope of each audit is conveyed to the auditee(s)
- Select the audit team, if applicable
- Assist the auditor in determining the audit population by preparing a list of all projects and licences that are within the audit scope
- Lead the implementation of external and internal audits within the BA
- Coordinate audit logistics, including transportation, field site visits, location of opening and exit meetings, and work areas for the audit team
- Ensure that the Provincial Internal Audit Program and Plan is followed in the planning and execution of internal audits
- Communicate with the Certification Officer and BA SFM coordinators to ensure that the most up-to-date and accurate BA SFM certification statistics are submitted to the auditor following an external audit

Audit Report

Lead Auditor through the BA CSO will:



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

- Prepare a draft audit report and submit it to the BA CSO for review and comment
- Produce a final audit report within two weeks of the exit meeting and submit to the Timber Sales Manager and the Certification Officer

BA CSO will:

- Review draft and final audit reports to ensure the audit is conducted within scope and the findings accurately reflect business processes and activities
- Communicate the results of internal and external audits to the BA Leadership Team and BA staff
- Prepare summaries of audit reports
- Receive and file audit reports
- Ensure that the final audit report is forwarded to the Local Committee and Certification Officer

Local Committee will:

- Review draft and final audit reports.

Audit Action Plan

Local Committee will:

- Make recommendations to the BA CSO/BA SFM Coordinators on actions to address audit findings to be documented in an audit action plan

Timber Sales Manager will:

- Allocate resources to implement local audit action plans

BA CSO will:

- Only create action plans from internal EMS audits that are related to local implementation, processes or operational controls
- All findings (internal /external) that have the potential to affect the corporate EMS will be forwarded to and reviewed by the Certification Officer for development of corporate audit action plans
- Recommendations from Local Committees for changes to the corporate EMS related to provincial consistency or the provincial EMS program to be forwarded to the Certification Officer
- Document the local audit action plan based on input from the Local Committee and others as appropriate
- Monitor progress toward completion of audit action plans
- Submit progress reports to the TSM and Certification Officer, as required, until all action plan items are addressed
- Prepare summaries of the status of local audit action plans for BA management review
- Prepare summaries of the outcome of action plans for BA management review



BC Timber Sales ENVIRONMENTAL MANAGEMENT SYSTEM

Certification Officer will:

- Review audit summaries and recommendations from Local Committees and BA CSOs for changes to the corporate EMS to address audit findings related to provincial consistency or the provincial EMS program
- Document corporate audit action plans based on input from the CSO Team and others as appropriate
- Coordinate provincial-level implementation of actions outlined in corporate audit action plans
- Prepare summaries of relevant audit findings and action plans for the corporate EMS management review
- Monitor progress towards completion of corporate audit action plans

All staff and others assigned actions in an Audit Action Plan will:

- Implement changes or take action to address all action plans assigned to them
- Prepare and submit action plan progress reports to the BA CSO as required until all action plan items are addressed

ISO 14001-2004 Reference

Clause 4.5.5 Internal Audit

The organization shall ensure that internal audits of the environmental management system are conducted at planned intervals to

- a. Determine whether the environmental management system*
 - *Conforms to planned arrangement for environmental management including the requirements of this International Standard, and*
 - *Has been properly implemented and is maintained, and*
- b. Provide information on the results of audits to management*

Audit programme(s) shall be planned, established, implemented and maintained by the organization, taking into consideration the environmental importance of the operation(s) concerned and the results of previous audits.

Audit procedure(s) shall be established, implemented and maintained that address

- *The responsibilities and requirements for planning and conducting audits, reporting results and retaining associated records,*
- *The determination of audit criteria, scope, frequency and methods*

Selection of auditors and conduct of audits shall ensure objectivity and the impartiality of the audit process.

Related Documents

- Provincial Internal Audit Program and Plan



Chapter 17 Management Review

Purpose

To ensure that a management review of the EMS and SFMP, where applicable, is conducted annually by Senior Management to ensure that:

- The EMS and SFMP continue to be suitable, effective and adequate
- Appropriate direction and resources are provided
- The EMS and SFMP will achieve continual improvement in environmental and sustainable forestry performance

Scope

A management review will be conducted annually, and will include an assessment of each of the EMS and SFMP elements as follows:

- Communications from external interested parties
- Suitability (given changing circumstances including legal and other requirements) of:
 - Policies
 - Environmental aspects
 - Objectives, targets and/ or standards as applicable
 - EMS / SFM audit program
- Progress on:
 - Environmental and SFM programs
 - Actions arising from previous management reviews
- Results of:
 - Monitoring and measurement
 - Non-conformance and corrective actions
 - Audits of the EMS and SFMP
- Adequacy of resources for the implementation and maintenance of the EMS/ SFMP

Roles

(See Chapter 7: Structure and Responsibility)

- Corporate Senior Management
- BA Senior Management
- Certification Officer
- BA CSO
- Local Committee



BC Timber Sales
ENVIRONMENTAL MANAGEMENT SYSTEM

Procedure

Corporate Senior Management (Director of Forestry, Director of Operations) will:

- Meet annually for the purpose of conducting an EMS corporate management review to ensure the ongoing suitability, adequacy and effectiveness of the EMS
- Review the elements of the EMS according to the scope of this procedure
- Provide recommendations and directions to the BAs for the ongoing implementation and continual improvement of the EMS
- Resolve concerns and issues related to the corporate EMS that are brought up by relevant interested parties

BA Senior Management (Timber Sales Manager, Woodlands Manager) will:

- Meet annually for the purpose of conducting an EMS and, if applicable, SFMP management review to ensure the ongoing suitability, adequacy and effectiveness of the EMS and SFMP
- Review the elements of the EMS and SFMP according to the scope of this procedure
- Provide comments, recommendations and directions to the local committee for the ongoing implementation and continual improvement of the EMS and SFMP
- Resolve concerns and issues that are brought up by relevant interested parties
- Review other relevant recommendations presented by the Local Committee

Certification Officer will:

- Assemble information reports and analysis, as well as recommendations as appropriate, for the corporate EMS management review
- Schedule and prepare the agenda for the corporate EMS management review meeting
- Ensure that the discussion and any recommendations, actions and directions resulting from the corporate management review were recorded
- Communicate the results of the corporate management review to the appropriate staff

BA CSO will:

- Assemble information reports and analysis, as well as recommendations as appropriate, for the local management review
- Schedule and prepare the agenda for the local management review meeting
- Ensure that the discussion and any recommendations, actions and directions resulting from the local management review were recorded
- Communicate the results of the local and corporate management review to the appropriate staff

Local Committee will:

- Provide input to BA Management and the BA CSO for possible resolution



BC Timber Sales ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001-2004 Reference

Clause 4.6 Management Review

Top management shall review the organization's environmental management system, at planned intervals, to ensure its continuing suitability, adequacy and effectiveness. Reviews shall include assessing opportunities for improvement and the need for changes to the environmental management system, including the environmental policy and environmental objectives and targets. Records of the management reviews shall be retained.

Input to management reviews shall include:

- a. Results of internal audits and evaluations of compliance with legal requirements and with other requirements to which the organization subscribes,*
- b. Communication(s) from external interested parties, including complaints,*
- c. The environmental performance of the organization,*
- d. The extent to which objectives and targets have been met,*
- e. Status of corrective and preventive actions,*
- f. Follow-up actions from previous management reviews,*
- g. Changing circumstances, including developments in legal and other requirements related to its environmental aspects, and*
- h. Recommendations for improvement*

The outputs from management reviews shall include any decisions and actions related to possible changes to environmental policy, objectives, targets and other elements of the environmental management system, consistent with the commitment to continual improvement.

Related Documents

- Provincial Management Review Report Template (Table 012-1)
- Provincial Management Review Local Business Area Report Template (Table 012-2)