

EMS MANUAL

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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
- implementing sustainable forest management (SFM) standards (i.e. Canadian Standards Association (CSA) Z809, Sustainable Forestry Initiative (SFI) and/or Forest Stewardship Council (FSC))

The Executive Director(s) have the overall responsibility for the EMS and SFM at the corporate level. This includes responsibility for approving environmental and SFM policies, providing senior management authority and resources for the effective management of the EMS and sustainable forest management plans (SFMPs), participating in corporate EMS and SFM management reviews, as well as other responsibilities outlined in this manual.

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

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Scope

The scope of the Environmental Management System (EMS) includes all licenses, permits and contracts awarded by BCTS Timber Sales Managers, as well as all activities undertaken by BCTS staff, licensees, permittees and contractors (LPCs) in the following functional areas: planning, roads, harvesting and silviculture. All activities undertaken by BCTS LPCs on log dumps and fuel storage & handling areas directly associated with BCTS LPC operations, but not covered by BCTS licenses, permits or contracts, are specifically included.

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, associated EMS and SFM program documents, including a glossary of definitions, are maintained on the BCTS website. Users of the EMS should check the website to ensure that they have the current versions.

Chapter 2 Environmental and SFM Policies

Purpose

To define and maintain environmental and sustainable forest management (SFM) policies that are appropriate to the activities of BC Timber Sales.

Scope

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

Roles

(See Chapter 6: Structure and Responsibilities)

- Executive Director(s)
- Timber Sales Manager

Procedure

Executive Director(s) will:

- Approve environmental and SFM policies and review them annually for their continuing suitability and appropriateness
- Ensure the policies are prominently displayed and available at the BCTS corporate office and on the corporate certification webpage
- Communicate the environmental and SFM policies to all Timber Sales Managers

Timber Sales Manager will:

- Communicate the environmental and SFM policies to all BA staff, licensees / permittees / contractors (LPCs), and the public
- Ensure the policies are prominently displayed and available at the TSO and on the BA certification webpage

Related Documents

- Environmental Policy
- Sustainable Forest Management Policy

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- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 3 Environmental Aspects

Purpose

Assess environmental aspects in a consistent manner to determine the highest risk to BCTS 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 6: Structure and Responsibilities)

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

Procedure

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 Certification Officer

Certification Officer will:

- Maintain and approve 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 BA 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
- Address any changes to the corporate list of environmental aspects taking into consideration any information presented during the annual management review (Chapter 16)

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- Approve significant environmental aspects developed by each Business Area (BA) (Table 004-1)

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

Related Documents

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

Chapter 4 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 6: Structure and Responsibilities)

- Timber Sales Manager
- Certification Officer
- BA CSO
- BA Supervisors

Procedure

Timber Sales Manager will:

- Ensure that staff have access to current pertinent legislation
- Determine and approve local requirements or commitments, such as BA Sustainable Forest Management Plans, if applicable
- Communicate any other BA requirements or commitments to the relevant BA staff

Certification Officer will:

- 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)

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BA CSO and/or relevant BA Supervisors will:

- Monitor changes in legislation for relevancy to BA activities
- Identify and record locally controlled documents (see Chapter 9), as required
- Evaluate the relevancy of legislation and other requirements to BA activities and aspects and maintain this information within Table 004-1
- 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 meetings

Related Documents

- Significant Environmental Aspect Form (Table 004-1)
- Document Control Matrix (Table 010-1)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 5 Objectives, Targets and Programs

Purpose

To ensure that BCTS establishes and maintains documented environmental objectives and targets consistent with its environmental policy, legal and other requirements, and significant environmental aspects, 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 6: Structure and Responsibilities)

- Manager (BCTS HQ)
- Timber Sales Manager
- Certification Officer
- BA CSO
- Local Committee

Procedure

Manager (BCTS HQ) will:

- Approve corporate objectives and targets, and environmental management programs (Table 006-2)

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

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any direction from the Executive Director(s) based on the results of the corporate management review

- Review and approve provincial core BA objectives and targets
- Maintain BA EMP Template (Table 006-1) and Corporate EMPs (Table 006-2)

Timber Sales Manager will:

- Approve BA environmental management programs
- Implement BA 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 BA 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 BA objectives are developed and reviewed periodically and are consistent with the environmental policy and any direction from the Executive Director(s) and/or Timber Sales Manager based on the results of the management reviews (Chapter 16)
- 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

Related Documents

- BA EMP Template (Table 006-1)
- Corporate EMPs (Table 006-2)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 6 Structure and Responsibility

Purpose

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

Scope

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

Roles

- Executive Director(s)
- Manager, BC Timber Sales, Headquarters
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- SFM Teams
- BA SFM Coordinators
- Local Committee
- BA Woodlands Manager / Supervisors
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Executive Director(s) will:

- Ensure that the environmental management system and corporate sustainable forest management requirements are established, implemented and maintained in accordance with the relevant standards

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Manager (BCTS HQ) will:

- Document the assignment of BCTS EMS/SFM roles and responsibilities (Table 007-1)

Timber Sales Managers will:

- Ensure that the environmental management system and corporate sustainable forest management requirements are implemented in accordance with the relevant standards
- Ensure that local SFMP requirements (if any) are established, implemented and maintained in accordance with relevant standards
- Report on the performance of the EMS and corporate SFM programs to corporate senior management 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 at the BA as relevant

Certification Officer will:

- Ensure that the environmental management system and corporate sustainable forest management requirements are established and maintained in accordance with the relevant standards
- Provide leadership towards provincial and business area implementation of the EMS and corporate SFM programs
- Update and approve corporately controlled EMS and SFM documents
- Report the progress of the EMS and corporate SFM programs to corporate senior management 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

SFM Teams will:

- Provide BA input for BCTS corporate SFM programs
- Review SFM issues and concerns identified by BA staff
- Make recommendations for the continual improvement of corporate SFM programs

BA SFM Coordinators will:

- Provide leadership in the development and continuous improvement of BA SFMPs and the BA implementation of corporate SFM programs
- Participate on local and/or corporate committees to maintain SFM certification

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Local Committee will:

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

BA Woodlands Manager / Supervisors will:

- Communicate the roles and responsibilities to the people that report to them
- Ensure that their workers receive appropriate training according to Chapter 7; Training, Awareness, and Competence

BA Staff will:

- Ensure that operations conform to SFMP and EMS requirements.

Licensees / Permittees / Contractors will:

- Ensure that their operations conform to SFMP and EMS requirements as specified in licences, permits and contracts.

The reporting structure for the EMS is illustrated in the BC Timber Sales EMS/SFM Organization Chart (Table 007-1).

Related Documents

- EMS/SFM Organization Chart (Table 007-1)
- EMS Manual
- Environmental Operating Procedures
- Environmental Field Procedures
- Sustainable Forest Management Plan(s) (SFMP)
- EMS Checklist Guidance Documents
- Document Control Matrix (Table 010-1)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 7 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, when 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 6: Structure and Responsibilities)

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

Procedure

Certification Officer will:

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

CSO Team will:

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- Develop and maintain corporate Training Matrix templates
- 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

BA Supervisors will:

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

BA Staff will:

- Require BCTS licensees / permittees / contractors to complete BCTS LPC EMS and SFM awareness training, to train their workers in the EMS and SFM and to keep records of their training
- Provide additional LPC training as specified in the LPC Training Matrix
- Evaluate the competency of licensees / permittees / contractors (through LPC training records and BCTS pre-works, monitoring and/or inspections) with regard to awareness of the potential environmental impacts of the tasks they perform
- Assess EMS and SFM awareness training needs for BA staff and prepare a schedule of training

Licensees / Permittees / Contractors will:

- Complete BCTS LPC EMS and SFM awareness training
- 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 as prescribed by BCTS

Related Documents

- EMS Training packages
- Corporate Training Matrix templates
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 8 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, when applicable.

Roles

(See Chapter 6: Structure and Responsibility)

- Executive Director(s)
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- Local Committee
- BA Woodlands Manager / Supervisors
- BA Staff
- Licensees / Permittees / Contractors

Procedure

Internal Communication

Executive Director(s) will:

- In the course of the corporate Management Reviews(s), provide direction to the Certification Officer for the ongoing maintenance of the EMS and corporate SFMP(s)
- Communicate the environmental and sustainable forest management policies to Timber Sales Managers

Timber Sales Manager will:

- In the course of the BA Management Reviews(s), provide direction to the BA CSO for the ongoing maintenance of local EMS documents and SFMP(s)
- Communicate the environmental and sustainable forest management policies to all BA staff, licensees / permittees / contractors, and the public

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BA Woodlands Manager / Supervisors:

- Woodlands Manager and 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 10 Operational Control)
- Communicate on incidents of potential / alleged non-compliance and non-conformance to the BA CSO
- Document and evaluate input received from the general public and interested parties about EMS environmental activities and SFMP(s), if applicable

Certification Officer will:

- Ensure communication of any change in the EMS Manual, corporate SFM program requirements and related legislation to BA CSOs and/or SFM Coordinators

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 BA environmental programs to the Certification Officer

SFM Teams will:

- Provide BA input for BCTS corporate SFM programs
- Review SFM issues and concerns identified by BA staff
- Make recommendations for the continual improvement of corporate SFM programs

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(s) and related 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 meetings

BA SFM Coordinators will:

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- Provide leadership in the continuous improvement of local SFMPs and assist in the continual improvement of corporate SFM programs
- Participate on local and/or corporate committees to maintain SFM certification

Licensees / Permittees / Contractors will:

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

External Communication

Executive Director(s) will:

- Ensure that the environmental and sustainable forest management policies are made available to the public and interested parties at the corporate level

Timber Sales Manager will:

- Ensure that the environmental and sustainable forest management policies are made available to the public and interested parties at the local level
- When 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 at the local level

Certification Officer will:

- Document and respond in a timely manner, in an appropriate way, to all corporate public inquiries and/or complaints about the EMS, corporate SFM programs, and relevant environmental activities at the corporate level

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) certification webpages
- When relevant, ensure that the SFMP(s), annual reports on the progress of the SFMP(s) and the results of independent audit reports are posted and maintained on the BA internal and/or external certification webpages
- Document and respond in a timely manner, in an appropriate way, to all public inquiries and/or complaints received by the BA about the EMS and SFM, and relevant environmental activities at the local level
- Refer any local public inquiries and/or complaints about the EMS and SFM at the corporate level to the Certification Officer

Related Documents

- Environmental Policy
- Sustainable Forest Management Policy

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- Sustainable Forest Management Plan(s) (SFMP)
- Environmental Operating Procedures, Environmental Field Procedures
- BA Significant Environmental Aspects (Table 004-1)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 9 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, when applicable.

Scope

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

Roles

(See Chapter 6: Structure and Responsibility)

- 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 and sustainable forest management policies
- Procedures and other documented operational controls necessary to conform to the policies 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 (i.e. local SFM User Guides, if available).

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

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Level 1	Provincial Core Documents (consistent format and content). Mandatory Use when applicable.
Level 2	Provincial Core Documents with Supplemental Content (consistent format and content with some BA discretionary content). Mandatory Use when 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

Timber Sales Manager will:

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

Certification Officer will:

- Approve corporately controlled EMS and SFM documents
- 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

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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 BA certification webpages

Certification Officer will:

- Communicate to the BA CSOs to enable updates to the BA certification webpages when corporately controlled documents have been revised and/or approved for implementation
- Retain corporately controlled obsolete documents in archives
- Maintain the corporate certification SharePoint

BA CSO will:

- Ensure the maintenance of the BA certification webpages
- Retain obsolete documents in archives
- 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 BA certification webpages 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 pertaining to licences, permits and contracts on BCTS certification webpages 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.

Related Documents

- Document Control Matrix (Table 010-1)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 10 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 6: Structure and Responsibility)

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

Procedure

Operational controls for the EMS include:

- Environmental operating procedures (EOPs) that provide direction to BCTS staff
- Environmental field procedures (EFPs) that provide direction to BCTS staff, licensees / permittees / contractors and their forest workers
- Forms and checklists which are used by BCTS BA staff, licensees / permittees / contractors and their forest workers to inspect environmental performance
- Environmental Emergency Response Plans
- Business Area EMS Supplements (when applicable)

Timber Sales Manager will:

- Approve any new or revised Business Area EMS Supplements
- Assign responsibility for tasks within the EOPs

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Certification Officer will:

- Approve any new or revised corporately controlled EMS operational controls
- Ensure 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

Related Documents

- Environmental Operating Procedures (EOP)
- Environmental Field Procedures (EFP)
- Environmental Emergency Response Plans (eERP)
- Forms and checklists
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 11 **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 environmental 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 6: Structure and Responsibilities)

- Executive Director(s)
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO / Local Committee
- Licensees / Permittees / Contractors

Procedure

Executive Director(s) will:

- In the course of the corporate Management Review(s), assess the effectiveness of the environmental emergency response program

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

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- Ensure that environmental emergency response procedures are tested a minimum of 3 times per year within the Business Area

Certification Officer will:

- Establish and maintain eERP templates including relevant preparedness and response information for:
 - Fire preparedness and response
 - Erosion preparedness and response
 - Spill preparedness and response
- Approve corporate environmental Emergency Response Plan templates (eERP)
- Ensure that tests of the emergency contact information within the corporate eERP templates are completed periodically

BA CSO / Local Committee will:

- Prepare a BA staff eERP and make the eERP available to staff
- 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 to BA staff
- Ensure that all employees are aware of their responsibilities under the eERP

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Related Documents

- Environmental Emergency Response Plan Template - Client
- BCTS Staff Emergency Response Plan
- CHK-009 Incident Report Form
- Guide for Conducting Emergency Response Tests / Drills for Fires, Spills and Erosion Events (ER Test-Drill Guide)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 12 Monitoring and Measuring

Purpose

To ensure that the BA maintains procedures for inspecting and monitoring operations and activities for EMS and SFMP requirements, when applicable. Inspections and monitoring are key activities to help ensure achievement of objectives and targets, and satisfy the environmental and sustainable forest management policies. They also provide 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 inspecting and monitoring conformance with environmental operating procedures (EOP), environmental field procedures (EFP), SFM Plans(s), compliance with legal requirements, progress on completing environmental management programs, and achievement of EMS and SFM objectives and targets.

Roles

(See Chapter 6: Structure and Responsibilities)

- Executive Director(s)
- Timber Sales Manager
- Certification Officer
- BA CSO
- BA Supervisor
- Local Committee
- BA Staff / Contracted Monitors
- Licensees / Permittees / Contractors

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Procedure

Monitoring of Legal Compliance and Conformance with Operational Controls

Executive Director(s) 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 006-2.
- Communicate a summary of BCTS compliance, conformance, EMP status, and performance monitoring status to the Executive Director(s) 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:

- Assess conformance with EOPs and other EMS requirements for those BA staff reporting to them.
- Track instances of potential non-compliance and/or significant non-conformance in a tracking system, when 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 when the information is relevant for performance monitoring purposes (e.g. trending)

Licensees / Permittees / Contractors will:

- Monitor and inspect their activities for conformance/compliance with:
 - Project Plan(s)
 - EMS/SFM requirements
 - Licence, permit and contract conditions
 - Compliance to legal requirements
 - Safety requirements

BA staff will:

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- Monitor and inspect Licensees / Permittees / Contractors, other BA staff and BCTS Operations by:
 - Conducting monitoring and inspections of BA licensees / permittees / contractors operations. Inspections are conducted at a frequency that reflects the potential risk of the project, as guided by the risk assessment framework. In the course of conducting monitoring and inspections, assess:
 - Conformance with Project Plan(s)
 - Conformance with EMS/SFM requirements
 - Conformance with licence, permit and contract conditions
 - Compliance with legislation
 - Conformance with safety requirements
- Documenting potential non-compliance information resulting from 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. Report potential non-compliances to the appropriate agency.

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

Note: Monitoring and inspections of Licensee / Permittee / Contractor operations may be conducted by BA contracted monitors

- Assign corrective and preventative action(s) to identified non-conformances and potential non-compliances
- Follow-up on any corrective and preventative action(s) identified in previous inspection(s) completed by BCTS or the LPC Supervisor to ensure they have been completed

Local Committee / BA CSO will:

- Communicate the status of the BA 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 BA EMP Template (Table 006-1)
- Review the information in the EMS tracking system (e.g.: for quality control, action plan completion/closure, trending, new or developing issues, etc.)
- Review compliance information when provided by regulatory agencies

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- Communicate summary of local compliance, conformance, EMP status, and performance monitoring status to the Certification Officer annually, if required

Related Documents

- BA EMP Template (Table 006-1)
- Corporate EMPs (Table 006-2)
- BCTS Inspection Checklists
- BCTS Inspection Guidance Documents
- Environmental Operating Procedures (EOP)
- Environmental Field Procedures (EFP)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 13 Non-conformance, Corrective and Preventative Actions

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 preventative 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 6: Structure and Responsibility)

Timber Sales Manager
Certification Officer
BA Woodlands Manager / Supervisors
BA Staff
BA CSO
Local Committee

Procedure

Certification Officer will:

In relation to conformance with the corporate 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 (Table 006-2)
- Determine corrective or preventative actions to ensure achievement of the corporate objectives and targets

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- Ensure that corporate corrective and preventative actions are appropriate to mitigate any impacts
- Ensure that corporate corrective actions are appropriate to reduce the likelihood of similar incidences
- Track the completion of corporate corrective or preventative actions

In relation to potential non-compliance with legal requirements and non-conformance with this EMS and SFMP(s), if applicable:

- Document a consistent approach to handling and investigating potential non-compliances and significant non-conformances
- Address any potential non-compliances and non-conformances resulting from corporate EMS and/or SFM audits
- Track the completion of corporate corrective or preventative actions resulting from corporate EMS and/or SFM audits

Timber Sales Manager will:

- Ensure that BA corrective and preventative action are appropriate to mitigate any impacts
- Ensure that BA corrective actions are appropriate to reduce the likelihood of similar incidences occurring
- Ensure that corporate and local corrective and preventative actions are implemented at the BA level

BA Woodlands Manager / 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 the EMS and SFMP(s), if applicable:

- Monitor activities in accordance with Chapter 12 - 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 received from Licensees / Permittees / Contractors, or notification of an incident received from another source

- Determine the root cause of the incident

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- 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 preventative actions are required and will initiate the corrective/preventative 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
- Confirm and document that the corrective or preventative actions has been taken before the deadline

Note: In some situations when an environmental issue is reported there may also be a requirement to conduct a safety incident investigation for any related safety issues

Local Committee will:

In relation to potential non-compliance with legal requirements and non-conformance with the EMS and SFMP(s), if applicable, as tracked in the tracking system:

- Periodically review the compliance and conformance results
- Identify repetitive or significant non-conformances and determine if further corrective and preventative action are required, by considering the identified root causes, the pervasiveness and severity of non-conformance and documented input on corrective/preventative 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 preventative action. Document the completion of the corrective and preventative action in the EMS tracking system
- Periodically review the effectiveness of corrective or preventative actions

BA CSO will:

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

- Assess achievement with the BA EMPs, including progress towards achievement of the BA 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 BA objectives and targets
- Document achievement of BA objectives and targets on the BA EMP Template (Table 006-1)
- Determine corrective or preventative actions to ensure achievement of the local objectives and targets

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Related Documents

- BA EMP Template (Table 006-1)
- Corporate EMPs (Table 006-2)
- Environmental Operating Procedures (EOP)
- Environmental Field Procedures (EFP)
- BCTS Pre-work and Inspection Checklists
- BCTS Pre-work and Inspection Guidance Documents
- BCTS EMS Issues Reporting and Tracking Business Process
- Sustainable Forest Management Plan(s) (SFMP)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 14 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 BA EMS as well as SFMP records, when applicable.

Roles

(See Chapter 6: Structure and Responsibility)

- Executive Director(s)
- Timber Sales Manager
- BA Staff

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 BC Timber Sales, 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

Executive Director(s) will:

- Ensure that all required corporate records are managed as mandated

Timber Sales Manager will:

- Ensure that all required local records are managed as mandated

BA Staff are responsible for:

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- Receiving, sorting, filing, maintaining and disposing of correspondence and documents relating to the EMS and SFMP, in accordance with Ministry Records Management Standards and Procedures
- 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 Records Management Standards and Procedures)

Related Documents

- Ministry Records Management Standards and Procedures
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 15 Audit Program

Purpose

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

To provide information to the Executive Director(s) on the environmental performance of corporate EMS/SFM programs 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, when applicable.

Roles

(See Chapter 6: Structure and Responsibility)

- Executive Director(s)
- Timber Sales Manager
- Certification Officer
- CSO Team
- BA CSO
- BA SFM Coordinator
- Local Committee
- Lead Auditor

Procedure

Planning

Executive Director(s) will:

- Allocate corporate resources for BCTS provincial external and internal audit programs

Certification Officer will:

- Approve BCTS provincial internal audit programs and plans
- Establish and maintain provincial external audit programs

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Lead Internal Auditor will:

- Submit internal audit protocols to the Certification Officer for approval prior to initiation of internal audit program, or as otherwise required

CSO Team will:

- Establish and maintain provincial internal audit programs and plans annually
- Assist in the development of external audit schedules
- Conduct periodic continuous improvement reviews of audit programs, when required

Timber Sales Manager will:

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

BA CSO will:

- Participate in the preparation and maintenance of provincial internal audit plans

Implementation

Executive Director(s) will:

- Allocate resources for the execution of corporate external and internal EMS/SFM audits

Certification Officer will:

- Assist the auditors, at the corporate level, in determining the audit population for internal audits
- Lead the implementation of external and internal audits corporately

Lead Auditor will:

- Ensure that corporate EMS/SFM audits assess organizational performance as a whole and at the individual site level

Timber Sales Managers will:

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

BA CSO will:

- Work with the Certification Officer and CSO Team to schedule specific dates for BA external and internal audits and ensure that the purpose and scope of each audit is conveyed to BA staff
- Assist the auditors 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

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- 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 data is submitted to the auditor following an external audit

Audit Report

Lead Auditor will:

- Clearly identify in the audit report whether audit findings relate to a failure to follow existing procedures, ineffectiveness of an existing procedure or the lack of a procedure

In relation to Corporate External and Internal EMS/SFM Audits;

- Prepare a draft corporate audit report and submit it to the Certification Officer for review and comment
- Produce a final corporate audit report and audit action plan template (per BCTS-approved format) within two weeks of the exit meeting and submit to the Certification Officer
- Include in the report a summary of individual BA audit findings, and any additional findings, that are applicable corporately

In relation to BA External and Internal EMS/SFM Audits;

- Prepare a draft audit report and submit it to the BA CSO for review and comment. Draft findings that may impact the provincial EMS or SFM programs must be discussed with the Certification Officer prior to the completion of the draft report, when possible. Any disagreements, or need for further discussions, shall be noted in the draft report for resolution before the final report is issued.
- Produce a final audit report and audit action plan template (per BCTS-approved format) within two weeks of the exit meeting and submit to the BA CSO and the Certification Officer

Certification Officer will:

- Review draft and final audit reports as indicated above, to ensure that audit findings accurately reflect the corporate EMS and SFMPs

Receive and file corporate audit reports, including posting on internal SharePoint within two weeks of receiving the final audit report, when practicable

BA CSO / BA SFM Coordinator will:

- Review draft and final BA 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

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- Receive and file BA audit reports, including posting on internal SharePoint within two weeks of receiving the final audit report, when practicable
- Ensure that the final BA audit report is forwarded to the Local Committee and Certification Officer

Local Committee will:

- Review draft and final audit reports

Audit Action Plan

Corporate External and Internal EMS/SFM Audits

Executive Director(s) will:

- Allocate resources to implement corporate audit action plans

CSO Team will:

- Make recommendations to the Certification Officer on actions to address corporate audit findings to be documented in corporate audit action plans

Certification Officer will:

- Document corporate audit action plans
- Ensure that corporate audit action plans identify root causes, corrective and preventative actions, for all corporate non-conformities and, when appropriate, corporate opportunities for improvement
- Assign actions to positions or groups, rather than individuals
- Finalize audit action plans within 30 days of the audit exit meeting, when practicable
- Monitor progress toward completion of corporate audit action plans
- Prepare summaries of the status and outcome of corporate audit action plans for corporate management reviews
- Receive and file corporate audit action plans, including posting on internal SharePoint

BA External and Internal EMS/SFM Audits

Timber Sales Manager will:

- Allocate resources to implement local audit action plans, and BA actions required in corporate audit action plans

Local Committee will:

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

BA CSO / BA SFM Coordinator will:

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- Only create action plans from EMS/SFM audits that are related to local implementation, processes or operational controls
- Ensure that all findings (internal /external) that have the potential to affect the corporate EMS/SFMP are forwarded to the Certification Officer for development of corporate audit action plans
- Ensure that recommendations from Local Committees for changes to the corporate EMS/SFMP related to provincial consistency of the provincial EMS/SFM programs are forwarded to the Certification Officer
- Document the local audit action plan based on input from the Local Committee and others as appropriate
- Ensure that BA audit action plans identify root causes, corrective and preventative actions, for all BA non-conformities and, when appropriate, BA opportunities for improvement
- Assign actions to positions or groups, rather than individuals
- Finalize audit action plans within 30 days of the audit exit meeting, when practicable
- 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
- Receive and file BA audit action plans, including posting on internal SharePoint

Certification Officer will:

- Review audit summaries and recommendations from Local Committees and BA CSOs for changes to the corporate EMS/SFMP to address audit findings related to provincial consistency or the provincial EMS/SFM programs

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

Related Documents

- Provincial Internal Audit Program and Plan
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)

Chapter 16 Management Review

Purpose

To ensure that management reviews of the EMS and SFMP(s), when applicable, are conducted annually by Senior Management to ensure that:

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

Scope

Corporate and BA management reviews will be conducted annually, and will include an assessment of each of the EMS and SFMP elements as follows:

- Communications from external interested parties, including complaints
- Suitability (given changing circumstances including legal and other requirements) of:
 - Policies
 - Environmental aspects
 - Objectives, targets and SFM 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 / preventative actions
 - Audits of the EMS and SFMP(s)
- Adequacy of resources for the implementation and maintenance of the EMS / SFMP(s)
- Recommendations for improvement
- Any additional elements

Roles

(See Chapter 6: Structure and Responsibility)

- Corporate Senior Management
- BA Senior Management

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- Certification Officer
- BA CSO
- Local Committee

Procedure

Corporate Senior Management will:

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

BA Senior Management 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(s)
- 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 and corporate SFMP(s) management review
- Schedule and prepare the agenda for the corporate management review meeting
- Ensure that the discussion and any recommendations, actions and directions resulting from the corporate management review are 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 are recorded

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- 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 on issues related to the local management review

Related Documents

- Provincial EMS Management Review Report Template (Table 012-1)
- Provincial EMS Management Review Local Business Area Report Template (Table 012-2)
- Provincial SFM Management Review Report Template (Table 012-3, if applicable)
- Provincial SFM Management Review Local Business Area Report Template (Table 012-4, if applicable)
- Sustainable Forestry Initiative (SFI) Standard(s)
- CSA Z809 Sustainable Forest Management Standard(s)
- Forest Stewardship Council (FSC) Standard(s)