

MENDOCINO REDWOOD COMPANY
in association with Humboldt Redwood Company

**OPERATIONS MANUAL – Mendocino Redwood
Company Resource Manager (MRCRM)**

Draft July 2003
Revised January 2010

Mendocino Redwood Company, LLC
850 Kunzler Ranch Road
P. O. Box 996
Ukiah, CA 95482

(707) 463-5110 - Main Number
(707) 463-5530 - Facsimile

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Forward

Mendocino Redwood Company (MRC) was created in July 1998 with a long-term investment by the Fisher family of San Francisco and their investment partners, while Humboldt Redwood Company (HRC) began operating on July 31, 2008, with a similar investment by the Fisher Family and their partners. From the beginning, both MRC and HRC have operated with a publicly declared purpose to demonstrate that it is possible to restore industrial forestlands as part of a viable business plan. Both companies long-term goal is to restore their property to a Redwood and Douglas-fir dominated selectively-harvested forest. Specific stewardship objectives include measurable improvements in aquatic and upslope habitat, old growth protection, clean water, and community well being, in addition to producing long-term sustainable timber supplies. MRC and HRC also provide consulting forestry expertise to the private forestry sector in northern California.

Both Mendocino Forest Products (MFP) and the HRC sawmill provide processing and marketing capability for timber-based products in the western USA. One of the core purposes of these entities are to utilize, market, and promote the use of FSC certified timber products.

While there are many models for companies on being a successful business, there are very few models that spell out how to be a successful environmental steward. The Forest Stewardship Council provides such a model.

- Formed in 1993 by a coalition of environmental organizations including National Resources Defense Council (NRDC), World Wildlife Fund (WWF), National Wildlife Foundation, Wilderness Society, etc.
- Formed with the belief that it was unrealistic to oppose harvesting of all trees for wood products in a world that uses a lot of wood, and where wood alternatives can have significant environmental impacts, and,
- Took on the challenge of creating forest management standards that would constitute exemplary forestland management.

Mendocino Redwood Company

- Publicly committed to the pursuit of FSC certification 6 months after we started.
- Underwent our first review in the summer of 1999.
- We were told we had more work to do, got busy, and dedicated ourselves.
- In late 2000, we became FSC certified (largest California landowner at the time).
- We gained a significant education that challenged our old beliefs.
- Obtained validation on our use of exemplary practices - especially in the completion of the landscape planning data collection process, harvest impact calculations, and how to deal with the tanoak issue.

Humboldt Redwood Company

- Began operating in 2008.
- Opened lines of communications to stakeholders and community members to facilitate the transition to the new management philosophy.
- Immediately committed to the same management philosophy that has guided the Mendocino Redwood Company.
- Received FSC Forest Management Certification in December 2010.
- Received FSC Chain of Custody certification at the HRC sawmill on October 21, 2008.

The Mendocino Redwood Company Resource Manager Program (MRCRM)

The market for FSC certified lumber continues to develop and MFP has the existing infrastructure to access this market with timber volumes from MRC as well as from the Humboldt Redwood Company forestlands. To further expand the availability of certified timber MFP and MRC, in association with HRC have developed an **Group certification program** designed to forge partnerships with like-minded forest ownerships and resource managers in northern California. MRC with assistance from HRC will provide the expertise and operational resources for the Mendocino Redwood Company Resource Manager Program (MRCRM). MFP will provide primary sponsorship and administrative support.

Forest management under the Principles and Criteria laid out by the FSC has financial considerations, which can be prohibitive for small forest ownerships. The MRCRM is intended as a means by which Resource Managers and Landowners can achieve FSC certification for forestlands at affordable cost.

Introduction

The operating procedures for the Mendocino Redwood Company Resource Manager Program are laid out in this document, inclusive of examples of associated documentation. This document is intended as a handbook for Resource Managers, Forest Owners, and Forest Owner Representatives deciding whether to enroll and for those members already enrolled in the program.

Philosophy Statement

As a group, Resource Managers, Forest Owners, and Forest Owner Representatives enrolled in this program support the Principles and Criteria of the FSC program and practice the profession of forestry in such a way that strikes a careful balance between environmental and social demands while maintaining economic viability.

Program Background

Forest certification

For several decades, there has been growing concern about the future of forests and the sustainability of harvesting levels. To address these concerns, the Forest Stewardship Council (FSC) created a system of independent forest inspection and certification to assure landowners, consumers, and others that forests certified under this system are well-managed and products from them are harvested in a ecologically, economically, and socially responsible manner.

Forest Stewardship Council (FSC) certification provides a tool to assure landowners that their forests are being well-managed to meet long term ecological, economic and social goals. Landowners, as well as general consumers and others, can feel confident that products from an FSC certified forest are produced without compromising the long-term health and beauty of that forest. Also, FSC Certification provides a marketing label that is increasingly recognized in the market and clearly identifies the product as meeting the standards of certification. Landowners can also purchase signs displaying the logo and information to post on their property to demonstrate their commitment to responsible forestry.

Forest Stewardship Council (FSC)

The Forest Stewardship Council (FSC) is an independent, non-profit membership organization with currently more than 300 members from over 40 countries. Current membership includes professional foresters, forest product manufacturers, timber companies, environmental groups, and community development organizations. FSC sets standards for well-managed forestry worldwide. FSC then accredits organizations to certify forests according to FSC standards. The goal of the FSC is to promote environmentally responsible, socially beneficial, and economically viable management of the world's forests, by establishing a worldwide standard of recognized and respected Principles of Forest Stewardship.

For more information contact: Forest Stewardship Council U.S., 1134 29th Street NW, Washington D.C., 20007, tel: 202-342-0413, fax: 202-342-6589, www.fscus.org

Resource Manager Certification

Individual certification for small landowners can be cost prohibitive. Group certification aims to overcome cost and other issues limiting small landowner certification by pulling together a number of small forest areas under a single "group manager". The Resource Manager program allows MRC to act as a

source of information and necessary guidance for forest landowners and managers, while providing a certification process that allows each group member to benefit from the economies of scale of being part of a larger group.

Group Certification

The mission of the Group Certification System is to increase and improve access to Forest Stewardship Council certification by providing access to certification for resource managers and the small, private forest ownerships with which they consult.

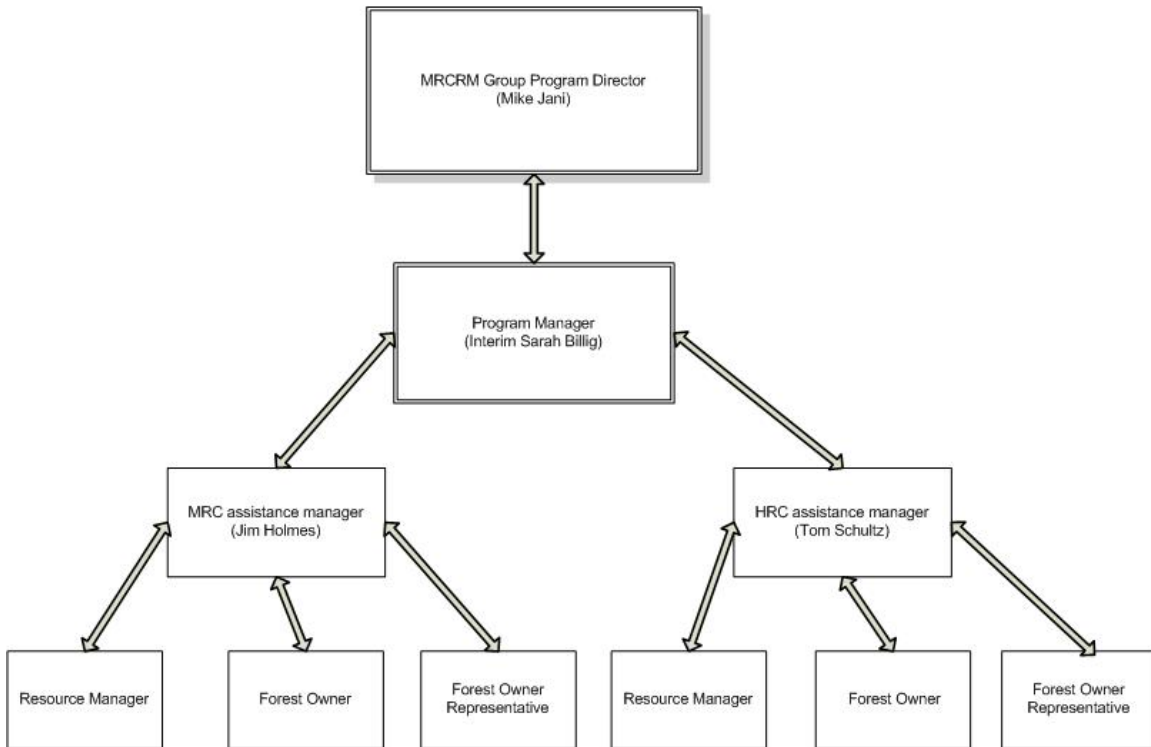
Group certification is a model of group certification developed to further reduce the costs and technical barriers to Forest Stewardship Council (FSC) certification for forest resource managers and small forest ownerships. The Mendocino Redwood Company Resource Manager Program (MRCRM) operates as such a group system – our certification was awarded after assessment by an accredited certification body with MRC the “Group Entity”, with MFP and HRC sawmills retaining the option to purchase logs from these group entities. The program enrolls eligible Resource Managers, Forest Owners, or Forest Owner Representatives into the program that are responsible for the management of individual forest ownerships. If a Forest Owner or Forest Owner Representative does not use an enrolled Resource Manager, the MRCRM Program Manager will maintain responsibility for all monitoring and compliance on that individual forest ownership. Enrolled Resource managers are required to monitor FMU’s under their management for compliance to the program and FSC requirements. Resource managers are themselves monitored for compliance by the Group Entity Managers and MRC.

Resource Managers, Forest Owners, and Forest Owner Representatives that become members of the MRCRM follow a process of assistance and oversight in partnership with the Group Entities to assure that the FSC standards are met and maintained on their property or properties they manage. This system includes management plan review by the MRCRM Manager, scheduling of field assessments to evaluate harvest designs, and arranging the use of the FSC logo for marketing products from member lands. Members wanting to participate in the MRCRM must commit to meeting FSC standards as well as audit visits by both MRC staff and certification body staff.

Forest Management under the program is conducted in accordance with the Principles and Criteria laid out by the Forest Stewardship Council. These can be found at <http://www.fsc.org>. These standards are further defined for application in California, Oregon and Washington States under the FSC Pacific Coast Standard developed by FSC US. Further information and a copy of the current standard can be found at <http://www.fscus.org/>

Program Operation

Program Structure



Organizational Description

The Mendocino Redwood Company Resource Manager Program is divided into two management groups – Mendocino and Humboldt. The Mendocino Group represents the areas within Mendocino, Lake and Sonoma Counties. The Humboldt Group represents the counties of Humboldt, Del Norte and Trinity. The MRCRM is administered by the Program Director who maintains overall responsibility for establishing policies and assuring conformance with the FSC Principles and Criteria. The MRCRM Program Manager has responsibility for operational direction to the Mendocino and Humboldt groups as well as participation in the program. Resource Managers are professionals trained in the natural resource sciences the provide management over site, monitoring and technical assistance to forest landowners. Forest Owners are individual landowners that own or control timberland that is managed in accordance with the FSC Principles and Criteria. Forest Owner Representatives are legal representatives of the current forest owner.

The Mendocino and Humboldt assistance managers may delegate direct supervision of the Resource Managers, Forest Owners, or Forest Owner Representatives to the MRCRM Program Manager or a designated employee of

HRC or MRC knowledgeable in the FSC standards, but retain responsibility for insuring that these enrollees in the MRCRM meet current FSC standards. These results will be reported directly to the MRCRM Manager.

Mendocino Redwood Company Resource Manager Program Structure:

Program Director

Mike Jani – President, Humboldt Redwood Company

Program Manager

Sarah Billig (Interim) – Stewardship Director, Mendocino Redwood Company

MRC assistance manager

Jim Holmes – President, Mendocino Redwood Company

HRC assistance manager

Tom Shultz – Forest Operations Manager, Humboldt Redwood Company

Resource Managers who meet eligibility criteria and who sign a contract are enrolled as participating RM's and will be able to enroll individual forest ownerships or management units under their guidance with approval by the MRCRM Manager. Note that all enrolled forest owners must also sign a contract agreeing to the requirements under the program.

Individual forest owners or forest owner representatives who wish to participate in the program but who are not affiliated with a certified Resource Manager will be directed to the MRCRM Manager to determine if they are eligible to enroll. The MRCRM Manager will review the management plan of the forest owner to determine if initial eligibility requirements are met, and determine a timeline for on-the-ground review and monitoring of the plan as it is implemented.

MRC and more specifically, the MRCRM director are responsible for establishing the rules for admission into the MRCRM, resignation or expulsion from the system, and the systems for monitoring the compliance with the certification standard (FSC US Pacific Coast Standard). The MRCRM director accomplishes this by directing review of management plans, harvest plan reviews, site visits, and audits. MRC is directly accountable to the Certification Body (Scientific Certification Systems) for all activities on member properties.

Responsibilities

MRC will:

- Provide the administrative services of the program
- Liaise with and pay costs to the certification body (Scientific Certification Systems) necessary to maintain FSC-endorsed certification for the group

- Review eligibility for enrollment of Resource Managers, Forest Owners, and Forest Owner Representatives.
- Assess management planning documentation of applicant membership
- Hold contracts with the enrolled membership, Resource Managers, Forest Owners, and Forest Owner Representatives
- Undertake internal auditing on a sample basis of Resource Managers, Forest Owners, and Forest Owner Representatives compliance to program requirements and the FSC Pacific Coast Standard
- Provide technical information relating to the program requirements and forest management
- Identify training opportunities for Participants
- Provide template documentation and checklists for management planning, planning review, site visit and audits (if needed)
- Produce an annual program report

Resource Managers will:

- Provide detail of their eligibility to operate as a certified Resource Manager, relative to the requirements established by the MRCRM.
- Sign a contract or be party to a log purchase agreement thereby agreeing to comply with the program
- Provide forest management services to their enrolled forest owners to ensure compliance with the program requirements and with the FSC US Pacific Coast Standard
- Supply copies of checklists and other management planning documentation of enrolled members to MRC
- Provide on site visits to properties being managed for auditing purposes.
- Work with clients to provide access for MRCRM representatives and FSC auditors for compliance with the program.
- Maintain copies of pertinent documents related to group certification, audits, reviews for a minimum of five years and make these accessible to MRCRM and FSC auditors as required.

Forest Owners and Forest Owner Representatives will:

- Sign a contract agreeing to comply with the program.
- Be committed to the FSC Principles and Criteria

- Ensure that management on their land complies with the requirements of the program
- Allow access for periodic field audits by MRCRM representatives and FSC auditors for compliance with the requirements of this program
- Maintain copies of pertinent documents related to group certification, audits, reviews for a minimum of five years and make these accessible to MRCRM and FSC auditors as required.

Eligibility

Resource Managers – Any eligible resource manager operating within California. Eligible Resource Managers must demonstrate a commitment to meeting and maintaining the FSC standards in their forest management and must demonstrate a willingness and ability to understand and comply with the program procedures. Further, MRCRM will review applicants' eligibility based upon letter of skills justification, resume, client references, interview and site visit to prospective enrolled properties. To become enrolled under the program, a Resource Manager must demonstrate:

- An understanding and long-term commitment to forest management that is in compliance with the FSC standards.
- An ability and experience in writing, administering and implementing management plans that meet the FSC Pacific Coast Regional standard
- An interest in continual improvement in their forest management understanding.
- An understanding of the local, regionally significant forest resources and conditions
- A willingness to accept feedback and criticism and work with a variety of partners to reach landowner's goals
- A commitment to serving the program Members and helping them maintain their certification by complying with all policies and guidelines
- Full compliance with any and all applicable local, state and federal voluntary or regulatory policies and established standards regarding natural resource management, best management practices and the forestry profession.
- Possession of any legally required licenses, such as a RPF license for those operating in California

Forest Owners and Forest Owner Representatives – Can be any forest ownership or representative of forest ownership within California. Membership in any landowner associations or other organizations does not prohibit membership. Eligible forest owners or forest owner representatives must demonstrate a commitment to meeting and maintaining the FSC standards in their forest management and must demonstrate a willingness and ability to understand and comply with the Mendocino Redwood Company Resource Manager Program policies and procedures.

Enrollment

Resource Managers

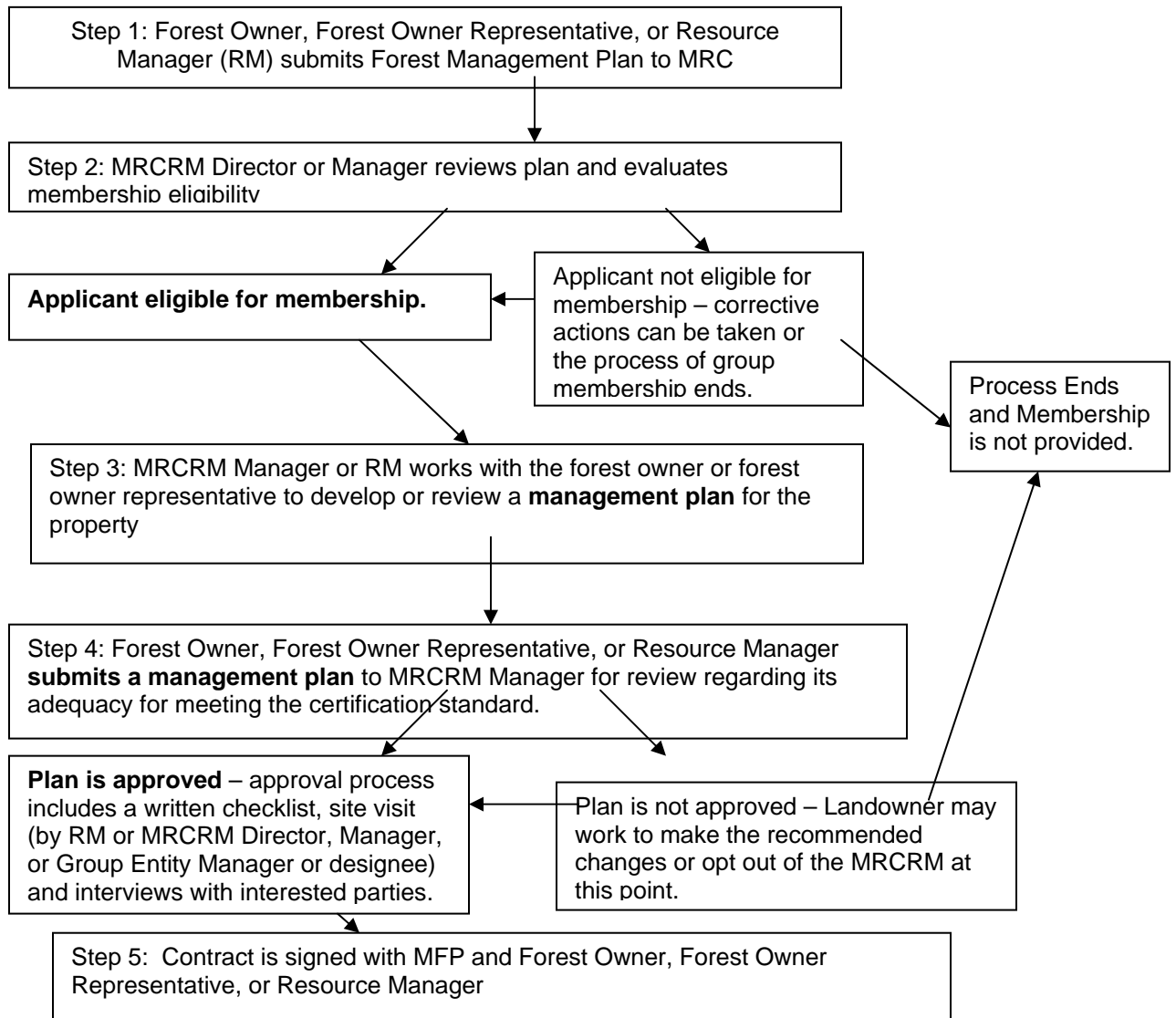
Resource manager will be enrolled that have satisfied the eligibility criteria outlined above and who have one or more FMU's assessed to be in compliance with management planning against the MRCRM/FSC standard (see below). A

signed agreement between the group entity and the RM will be retained which outlines each party's responsibilities.

Group Enrollee Assessment

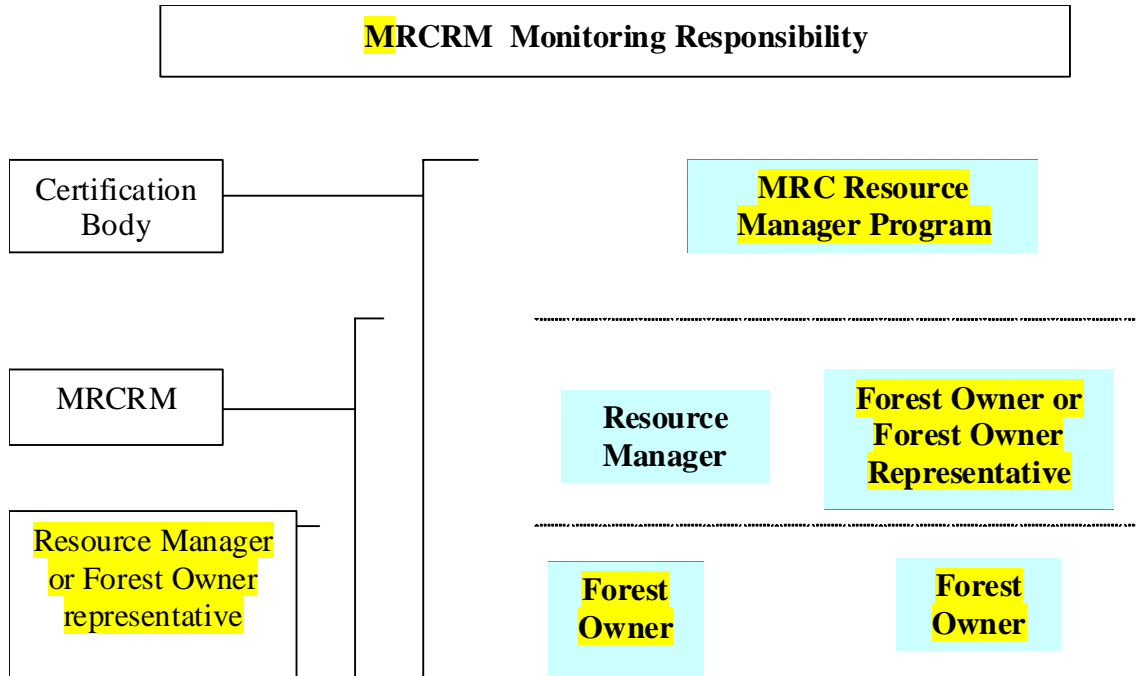
The following assessment steps will be undertaken when:

- Assessing a Resource Manager, Forest Owner, or Forest Owner Representatives eligibility for enrollment
- Enrolling a Forest Management unit.



Monitoring / Auditing

Monitoring for compliance is the essential element of the FSC certification program and is conducted through initial and subsequent assessment audits. In the MRCRM, the responsibilities for oversight are defined in the figure below.



The group certification scheme will be annually audited by the certification body. This organization will undertake annual audits of the administrative aspects of the program (documentary records / procedures for both MRCRM, the RMs, and Forest Owners or their Representatives) and will undertake sample audits of forest management units enrolled in the program for compliance against the FSC standards. The audits conducted by the certification body and its sample basis will be established in a manner that conforms with FSC auditing requirements.

Audit Frequency

FREQUENCY OF SITE VISITS			
Who is audited	Minimum Frequency	Additional	By whom
Mendocino Redwood Company Resource Manager Program	Annually	Certification body retains the right to conduct additional audits	Certification body
Resource Manager	One initial plus one compliance during the five-year period	MRCRM retains the right to conduct additional audits Certification body will audit a sample of RMs as needed	Mendocino Redwood Company Resource Manager Program & Certification Body
Forest Owner or Forest Owner Representative	One initial plus one compliance during the five-year period	Additional assessment may be made: <ul style="list-style-type: none"> • Pre-operational • During Operations • Post-operational Certification body will audit a sample of enrolled Forest Owners or Forest Owner Representatives annually	Mendocino Redwood Company Resource Manager Program & Certification Body

Internal Program monitoring

Group Enrollees

Each group enrollee will receive a review of its management plan as part of the entry assessment. This will be conducted by the MRCRM manager in conjunction with the enrollee and may involve a site visit. During this initial assessment the monitoring responsibilities of the enrollee will be defined. These should include the research and data collection needed to monitor, at a minimum, the following indicators:

- a) Yield of all forest products harvested.
- b) Growth rates, regeneration and condition of the forest.
- c) Composition and observed changes in the flora and fauna.
- d) Environmental and social impacts of harvesting and other operations.
- e) Costs, productivity, and efficiency of forest management.

The enrollees are required to report on the defined monitoring objectives annually to the MRCRM program manager. Results of monitoring will be used in the revision of management plans prior to operational activity and at the end of the five-year cycle.

The MRCRM program manager will collate data from all enrollees monitoring programs to produce a summary report that describes issues, objectives and successes in relation to monitoring.

During the initial assessment, Corrective Action Requests (CAR's) may be raised that identify shortfalls in management planning requirements. This may include the requirement for a NTMP or elements of it, to be completed.

During the five-year period of enrollment each enrollee will receive a minimum of one further site assessment audit by the Program Manager or designee regardless of operational activity. The Program Manager or designee will, seek to complete the assessment during pre-operational planning THP or other operational activity planning.

Resource Managers

During the five-year period of enrollment each Resource Manager will be assessed for compliance against program requirements during the initial enrollment process and at a minimum once more, regardless of operational activity. The second assessment will include a review of documentation and record keeping and a site visit to a minimum of one forest management unit in the respective Resource Managers portfolio.

Resource Managers will be required to make periodic visits to each forest management unit under their respective management during periods of operational activity. In addition pre-, during- and post-operational site visits are required and should be conducted using checklists either supplied by MRCRM or designed by the Resource Manager. All documents should be retained by the Resource Manager and copied to both Forest Owner, Forest Owner Representative (if existing), and the MRC Resource Manager.

Monitoring Tools

Operational internal monitoring is conducted using the checklists Initial FMU Assessment

- Management planning / FSC Pacific Coast Regional Standard
- Post operational Checklist
- Annual reporting summary

Incorporating Findings and Recommendations

Following the preparation of the Annual Report by the MRCRM Manager, the MFP/HRC log buying team will review the annual report to determine if changes to the program manual are required. Any changes made to the program manual may require changes to the purchase order agreement, the cover letter that

accompanies all purchase orders, or, if substantial enough may require communication with all MRCRM group members.

Approved recommendations will be incorporated into this Operations Manual prior to the next scheduled Annual Audit of the MRCRM.

Corrective actions

Both the MRCRM personnel and Resource Managers will be required to utilize MRCRM checklists or checklists of their own design when visiting group enrollees. Shortfalls identified should be annotated on checklists and a Corrective Action Request (CAR) raised for each shortfall. Corrective Action Requests (CAR's) can be made at anytime from application for enrollment, during site visits and formal audits.

Availability and Distribution of Monitoring Results

Following the completion or receipt of annual audits and monitoring report for group members, the MRCRM Manager will prepare a summary of these reports. Annual summaries will be reported on the MRC/HRC website (www.mrc.com or www.hrcllc.com). Items that may be included in this group report include a list of group certificate members, NTMP/THP numbers, and names of areas harvested under the group certificate in any given year. Also included in the report will be a discussion of any corrective actions noted by either FSC auditors or MRCRM inspectors during operations (though these will not be tied to individual plans).

Disciplinary procedures

To ensure compliance with the FSC standards, it is necessary for members of the MRCRM to maintain their commitment to the member responsibilities as expressed the signed purchase order. If a member violates the agreement, or monitoring and site reviews reveal non-compliance with the certification standards, that member will be automatically made ineligible to market products using the FSC certified logo and their membership will be suspended. MRC will determine an appropriate probationary period and corrective actions to be taken if the member expresses interest in staying involved with the program and reinstating their membership.

Dispute resolution

To avoid conflicts and disciplinary procedures, members are encouraged to communicate with their RM (if existing) and program manager as much as necessary to avoid misunderstandings. Conflicts will largely be avoided if members make sure their management and operational or harvest plans are reviewed and approved by the program manager and treatments are done in

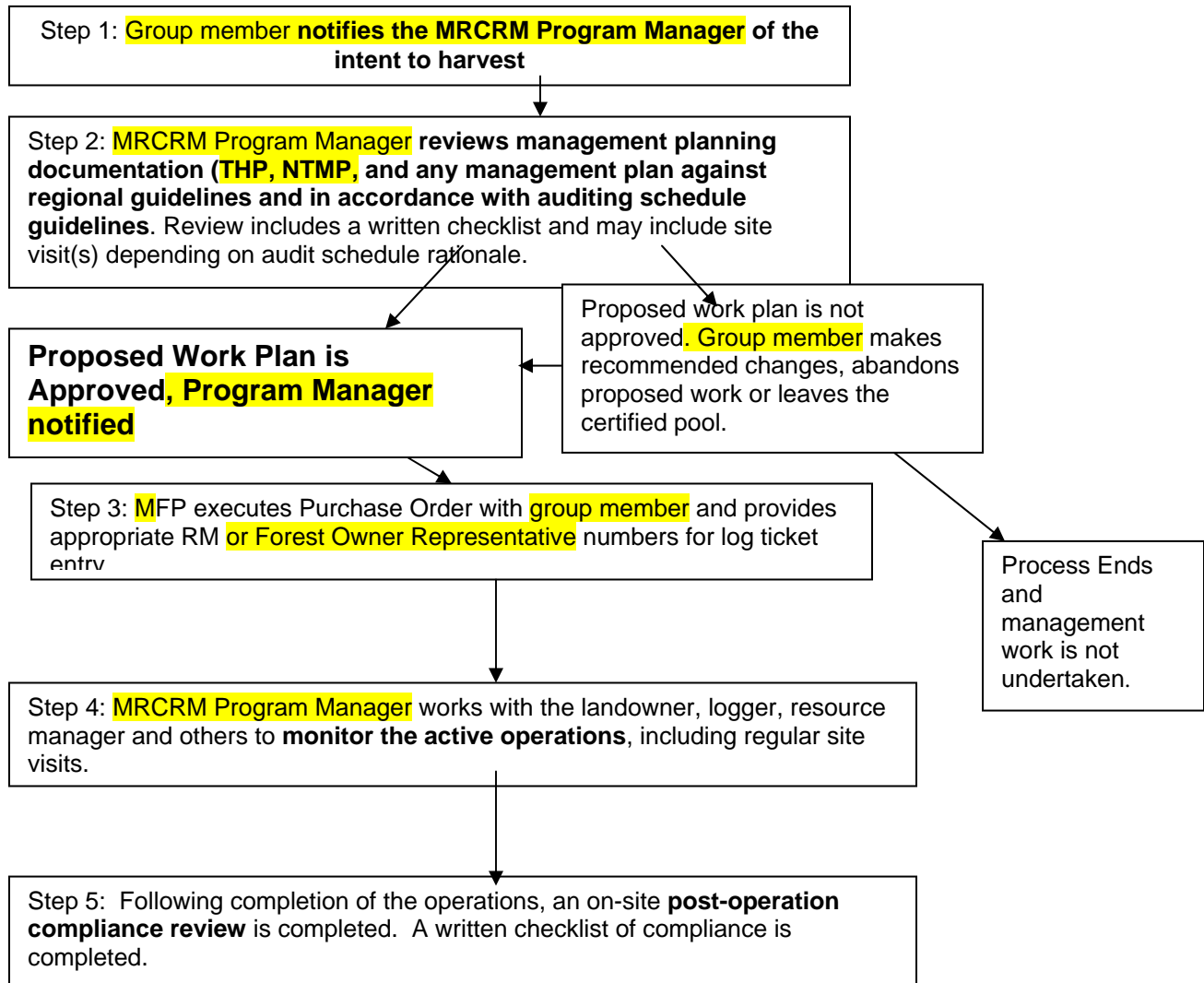
accordance with the approved plan and the program manager is informed of these activities.

Dis-enrollment (destitution)

Participation in the program is voluntary and as such enrolled members may opt out at anytime by informing the MRCRM Program Manager. However, the FSC standard demands that participants demonstrate long term commitment to certified management. Participants that opt out may not be eligible to rejoin or may be given a probationary period for re-entry, to be determined by the MRCRM Director.

Operational Activity Management

Close supervision of operational activity is essential in ensuring compliance with the FSC standard. The process by which this occurs is outlined below.



Chain of Custody

Upon execution of the Purchase Order between MFP and the group member, the MRCRM certificate number shall be provided and entered on each and every load ticket leaving the property. This shall be entered on each scale ticket at the time of scaling at the MFP or HRC milling facility. These logs will be segregated and milled separately from non-FSC certified materials which may be delivered to the MFP or HRC mill.

Policy Guidelines

Certification Compliance and Performance Evaluation Protocol

Stage in Forest Management Process	Conducted By	Form(s)	Guidance
During the Management Plan Development Process	Resource Manager Or MRCRM Program Manager or designee	Management plan and associated Timber Harvest Plan or Non-Industrial Timber Harvest Plan	At least one site visit will be conducted by the Resource Manager or MRCRM Program Manager (or designee) and the plans shall be written to adhere to FSC Regional Guidelines
Before Forest Management Activities	RM (with copies submitted to MRCRM program manager OR MRCRM assistance manager or program manager, or designee	Management Plan Review Checklist; Regional Guideline Checklist (see Appendix 1) - based on the Pacific Coast standard Resource Manager or Forest Owner Representative will hold pre-harvest site visit with assigned Timber Operator (documentation provided to MRCRM program manager)	MRCRM assistance Manager or Program Manager or designee may conduct a site visit before active operations if the site has not been visited in the past 2 years or the activity includes any commercial timber harvesting, road construction, rare species or habitats, other unique situations.
During Forest Management Activities			Resource Managers or Forest Owners or Forest Owner Representatives will monitor operational activity

			sufficient to ensure operations proceed according to planned activity and in accordance with the FSC standard. Non-commercial activities will be monitored as necessary.
After Forest Management Activities	RM Or MRCRM assistance Manager, program manager or designee	Post Harvest Monitoring Checklist	At least one site visit will be conducted by following the completion of site disturbing activities by either the RM or MRCRM program manager, assistance manager, or designee. Site disturbing activities include commercial timber harvesting, road construction, rare species or habitats, other unique situations.
Annual Reviews	MRCRM Program Manager	Annual Compliance Review	The MRCRM Program Manager will assure that all properties are visited by MRCRM assistance manager, program manager, or their designees at least once during the five-year certification period and a minimum twice if operational activity occurs in that period.

Contract and Service Provider Policies

To be eligible to participate in the MRCRM, forest owners or their representatives must either contract with an enrolled RM or work directly with the MRCRM Manager. All service providers must demonstrate an understanding of the FSC regional standard and the MRCRM policies and operations as well as show a willingness to comply with all requirements. Potential service providers include forestry co-op staff, private forestry consultants, public agency foresters, and other public or private natural resource professionals. MRCRM will make all manuals, documents, and materials regarding this program available to service providers upon request.

Appendix 1

Regional Guideline Checklist

1. COMPLIANCE WITH LAWS AND FSC PRINCIPLES

- a. Examine records for violations

2. TENURE AND USE RIGHTS

- a. Are there any outstanding use rights and are they being observed?

3. INDIGENOUS PEOPLES RIGHTS

- a. Are indigenous people consulted in forest planning phase?
- b. Is input from indigenous people reflected in forest management?
- c. Are sites protected?
- d. Is compensation provided to individuals or entities which provide it?

4. COMMUNITY RELATIONS AND WORKERS RIGHTS

- a. How are forest operations melded into the local community?
- b. Are workers on the forest paid a competitive wages for the area?
- c. Are all safety laws observed?
- d. What particular efforts are made to adopt forest management activities to local conditions in regards to public input?

5. BENEFITS FROM THE FOREST

- a. Is the financial model for the operation sufficient to provide for long term sustainability?
- b. Are forest products fully utilized?
- c. Do management actions provide for enhanced non-timber forest services such as fisheries, watersheds and wildlife?
- d. Does the rate of harvest exceed levels that cannot be permanently maintained?

6. ENVIRONMENTAL IMPACT

- a. Have environmental assessments, appropriate to the scale of operations, been made to assess the impacts of forest management?
- b. Have impacts been mitigated to as much as practicable?
- c. Are rare and endangered species protected?
- d. Are key ecological functions maintained intact, enhanced or restored?
- e. Are old growth stands and forests given special consideration for protection and does that protection maintain their value as old growth refugia? Are un-entered old

growth stands, 20 acres and larger, permanently protected from harvest?

- e. Does forest management reasonably mimic natural forest processes?
- f. Are protection measures in place to insure long term forest soil productivity?
- g. Are adequate retention policies in place to insure that biological legacies will be maintained or enhanced?
- h. In openings created by harvesting activities that are 6 acres and larger, is between 10-30% of the pre-harvest basal area maintained?
- i. If even- aged management is being used for conifer regeneration in existing conifer stands, do the stand sizes average 40 acres or less, with no individual stand being greater than 60 acres?
- j. Are harvested stands fully stocked and allowed to reach a height of at least 7 feet before the adjacent stands are harvested?
- k. Are all stages of ecosystems represented in the forest planning.
- l. Are unique ecosystems afforded special protection and management.
- m. Are written guidelines provided in the management plan that address forest and soil protection and are these measure put into place on the ground.
- n. Are watercourses adequately protected?
- o. Do the category A streams have a highly protective fifty foot inner protection zone and an outer zone out to 150' where selection silviculture is employed?
- p. Do the category B streams have a highly protected 25 foot inner buffer and an outer zone out to 75 feet where selection silviculture is employed?
- q. Do category C streams have 75 foot buffer zones (each side) where selection silviculture is employed?
- r. Are crossings sized to handle 100 year events? If not, are they engineered to provide for limited consequences in the event of failure?
- s. Does the management scheme provide for the eventual phase out of forest herbicides and other chemicals?
- t. Are genetically modified organisms used as a part of the overall management scheme?
- u. Are there exotic pests and are they being managed for eventual removal?
- v. Is any part of the forested ownership being converted to non-forest use or plantations? If so are there sufficient trade off occurring that will enable substantial, secure long-term conservation benefits?

7. MANAGEMENT PLAN

- a. Is there a management plan?
- b. Does the management plan provide the following: 1. management objectives 2. description and maps of the forest resources.3. Description of silvicultures and rationale for such. 4. Credible inventory and rationale for annual harvest and species selection. 5. Provisions for monitoring growth, yield and dynamics 6. environmental safeguards 6. Plans for

identification and protection of rare and endangered species 7. Harvest systems mapping

8. MONITORING AND ASSESSMENT

- a. Are inventories updated and adjusted at least every ten years or between harvest entries so as to validate growth/yield assumptions?
- b. Do monitoring efforts provide for accurate assessments of other critical biological processes within the forest?

9. MAINTENANCE OF HIGH CONSERVATION VALUE FOREST

- a. Are there any identified high conservation value forests (HCVs) or attributes on the property?
- b. If HCVs are present, is prescribed management for those areas consistent with the maintenance of those HCVs.

10. PLANTATIONS

- a. Are plantations part of the management strategy?

Appendix 2 – Completion of operations checklist

Questions to be answered during post-harvest review:

- 1) What is the stand condition (does the stocking meet what was prescribed in the NTMP or management plan, how much stand damage occurred)?
- 2) Was erosion control implemented as proposed (review a minimum of 5 random road points)?
- 3) Are there any future plans for vegetation management or planting?
- 4) Were there any special concern areas retained or harvested with different prescriptions (e.g. stream zones, retention of biological legacies, endangered species buffers, etc)?
- 5) Were there any responses to the required notice of operations? If so, how did you address them?
- 6) Are there any sites of tribal significance protected in the treated area? Was there any tribal involvement or interest during or prior to operations?
- 7) Were there other specific mitigations prescribed in the NTMP that need to be addressed?
- 8) Were there any notices of violation on this operation?
- 9) Did the volume removed fall within the allowable harvest levels as identified in the NTMP or management plan?
- 10) Have there been any environmental or landscape changes (natural or man caused) that would trigger amendments to the NTMP or management plan?
- 11) Have there been any regulatory changes that should be incorporated into the NTMP or management plan?
- 12) Does this operation complete harvesting (or management) in this unit? If so, has the site been properly closed?
- 13) Were the forest products sold under FSC certification properly documented for Chain of Custody?