

DEPARTMENT: Mariposa County Public Health BY: Charles B. Mosher, M.D., MPH, A.P.C.O
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RECOMMENDED ACTION AND JUSTIFICATION: Program
Recommend resolution adopting smoke management plan for the Mariposa County Air Pollution Control District. (Continued from August 12, 2003)

BACKGROUND AND HISTORY OF BOARD ACTIONS:

Entities which wish to burn for purposes of management of forests are allowed to do so in the Mariposa County Air Pollution Control District as long as they obtain a burn permit and execute the burn in a manner consistent with that burn permit. The regulations adopted by this Board for this burn activity are found in regulation III of the Air Pollution Control District's rules and regulations.

Some problems in the past (not involving Mariposa County) included one air pollution jurisdiction allowing burning on a given day without knowledge that the adjacent jurisdiction was also allowing burning. There have been a couple of incidents of severe smoke impact to heavily populated areas as a result.

The State Air Resources Board is requiring by law that each local air pollution control district adopt a smoke management program. The Mountain Counties Air Basin (a group of foothill and mountain air pollution control districts which includes Mariposa) drafted a uniform smoke management plan, which is reasonable for our small rural jurisdiction. Major burners including the National Forest Service, California Department of Forestry and the National Park Service, were involved. Mariposa's plan is attached.

It is the Health Officer/Air Pollution Control Officer's assessment that this smoke program, developed in consultation with CDF, the National Park Service and other burners, is reasonable and allows some burning for forest management while protecting the public's health with respect to exposure to excessive amounts of smoke. Adoption is recommended.

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

Financial Impact? () Yes (X) No	Current FY Cost: \$0.00	Annual Recurring Cost: \$
Budgeted In Current FY? () Yes () No () Partially Funded	N/A	
Amount in Budget: \$	List Attachments, number pages consecutively	
Additional Funding Needed: \$	_____	
Source:	_____	
Internal Transfer	_____	
Unanticipated Revenue	_____ 4/5's vote	_____
Transfer Between Funds	_____ 4/5's vote	_____
Contingency	_____ 4/5's vote	_____
() General () Other	_____	

CLERK'S USE ONLY:

Res. No.: 03-2 Ord. No. _____
Vote - Ayes: 5 Noes: _____
Absent: _____
Approved
() Minute Order Attached () No Action Necessary

The foregoing instrument is a correct copy of the original on file in this office.

Date: _____
Attest: MARGIE WILLIAMS, Clerk of the Board
County of Mariposa, State of California

By: _____
Deputy

COUNTY ADMINISTRATIVE OFFICER:

Requested Action Recommended
 No Opinion
Comments:

CAO: FH

**Mariposa County Air Pollution Control District
Smoke Management Program**

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Introduction and Background

Mariposa County is located in Central California on the western slope of the Sierra Nevada. The country is bounded by Tuolumne County on the north and east, Madera County on the south and Merced County on the west. Mariposa has an area of approximately 931,200 acres of which 452,384 acres are publicly owned and occupied by Yosemite National Park, the Bureau of Land Management, and the Sierra and Stanislaus National Forests. The elevation ranges from 300 feet at the western end and goes all the way to 12,120 feet at Parson's Peak on the eastern border. The summers are hot and the winters are mild at the lower elevations. The rainfall varies from 15 inches to 50 inches per year, depending on the elevation. Beyond the 6-7,000 foot elevation snow is dominant in the winter.

The county has a population of approximately 17,130 people located in unincorporated areas. Mariposa County has no incorporated cities. As with most of California, Mariposa County has cool to mild winters (except the higher elevations) and warm to hot summers. Predominately the surface winds in Mariposa County are northerly, with westerly and southerly influences. Additionally Mariposa County experiences diurnal wind patterns of up-slope winds during the day and down-slope winds at night during the dry season. During the spring, summer and fall seasons, temperature inversions are a normal occurrence, which prohibits good dispersion of smoke and other air pollutants. During calendar year 2000, reported agricultural and prescribed burning consisted of approximately 18,712 tons of vegetation (tonnage only reported) and 2387 acres of vegetation (acres only reported).

Mariposa County is one of seven air pollution control districts that make up the Mountain Counties Air Basin (MCAB). The MCAB consists of Amador, Calaveras, El Dorado, Mariposa, Northern Sierra (Nevada, Plumas, and Sierra Counties), Placer (portion thereof), and Tuolumne air pollution control districts. The seven air districts work closely together employing a regional approach to air pollution control.

This Smoke Management Program ("Program") is intended to describe Mariposa County Air Pollution Control District's ("District") methods of implementing §80100-80330 of the California Code of Regulations Title 17, Smoke Management Guidelines for Agricultural and Prescribed Burning, and of ensuring compliance with District Regulation III - Open Burning (Rules 300-311). One of the District's goals is to achieve and to maintain all state and federal ambient air quality standards related to particulate matter through implementation of emission reducing measures, which includes this Program. The Program's objectives are to allow for the continuation of agricultural and prescribed burning as a resource management tool and provide increased opportunities for agricultural and prescribed burning while at the same time minimizing smoke impacts to the public.

The District derives its authority to implement and enforce this Program from Regulation III, Rules 302, Air Pollution Permit, and 306, Burn Plan. These rules require applicants for agricultural and prescribed burning to supply such information as is required by the District prior to setting or allowing an outdoor fire. Additionally Rule 304, Burning Management, requires the District to regulate burning or require mitigation if it is determined that meteorological conditions could cause smoke to create or contribute to a violation of an air quality standard or

cause a public nuisance. These rules give the District broad authority to regulate agricultural and prescribed burning activities in its jurisdiction.

This Program was prepared in conjunction with the air districts participating in the Mountain Counties Air Basin Technical Advisory Committee. Public and private land management agencies have been given the opportunity to comment on this Program through participation in the Mountain Counties Air Basin Smoke Management Alliance ("MCABSMA"). Additionally, the District provided a 30-day public notice and comment period prior to District Board of Directors adoption.

The District plans to continue participating in the MCABSMA which provides a forum to develop agreements with public and private land management agencies for more detailed smoke management activities and associated tools. The MCABSMA Charter is attached as Appendix A.

Since the District's current regulations provide the authority to implement and enforce this Program, no modifications to Regulation III are anticipated at this time. Once the program is fully developed and implemented, the District may discover changes that need to be made in the District's regulations. Any changes needed to fully develop and implement the Program will be drafted and after public review adopted by the District's governing board.

The Program is divided into six sections: permitting, registration, authorization, planning, resources, and enforcement with supporting appendices. Each section describes the methods used by District staff for that particular issue from specific actions that are required to general guidelines or procedures that provide direction to District staff. The appendices include pertinent documents that support the Program. Since smoke management is complex and is affected by many variables, no written program will be able to address every situation. This Program is designed to provide general direction, but should not override common sense in regulating burning in the District.

Section 1- Burn Permits

District staff issues air permits for all agricultural and prescribed burning projects in addition to the burn/fire permit required by the fire protection agency. The air permits are issued at the District's office but also may be issued via fax, mail or e-mail. The air permit includes conditions that limit burning to permissive burn days, limit types of material to be burned, require material that is burned to be free of moisture and dirt, and require approved ignition devices be used. The permit allows the District to add conditions to limit the amount of material to be burned or burn hours if necessary. In addition to the air permit, land managers/burners must also submit a smoke management plan for prescribed burning projects.

- a) All agricultural and prescribed burning requires a valid air permit from the District. The most current version of the air permit application is attached as Appendix B. An approved Smoke Management Plan serves as a conditional permit to burn when combined with the air permit. The most current version of the Smoke Management Plan application is attached as Appendix B.
- b) A valid burn permit may also be required from the fire agency that has jurisdiction in the area of the proposed burn project.
- c) Burning conducted pursuant to such permits issued by the District and a fire agency must comply with all the conditions specified on such permits including an approved Smoke Management Plan. See section 4 for further discussion on the Smoke Management Plan requirements. Failure to abide by permit conditions is a violation of Section 41852 of the California Health and Safety Code and of District Rule 505, Conditional Approval.
- d) All permits issued for agricultural and prescribed burning by the District or fire agency must contain the following words or words of similar import: "This permit is valid only on those days during which agricultural burning, including prescribed burning, is not prohibited by the State Air Resources Board or by an air district pursuant to Section 41855 of the Health and Safety Code, and when burning on the lands identified herein has been approved by the air district".
- e) Special permits for agricultural or prescribed burning on no-burn days may be issued by the District if denial of such permits would threaten imminent and substantial loss. The District limits the amount of burning that can occur pursuant to the issuance of such a permit to the extent that it ensures no exceedences of air quality standards or smoke impacts to smoke sensitive areas. Each applicant for a no-burn day permit shall submit a completed Authorization to Burn on a No Burn Day application to the District or as otherwise required by the District to make this determination.

Section 2 - Burn Registration and Reporting

- a) All persons who desire to conduct prescribed burning in the District in any particular calendar year must register their planned burn projects with the District. The MCABSMA members register their burns semi-annually prior to the spring and fall burn seasons. Updates and late additions to this registration process are accepted from members and non-members. The burn registration must include the name of the permittee, including a contact person with phone number; a listing of all projects planned, with legal descriptions of their locations (township, range, section #); and an estimate of the total acreage and/or tons of material to be burned.
- b) Each day during the burn season, land managers/burners will submit a daily report to the District. This report shall at a minimum list the project name, date, location and acres or amounts of material burned. The Daily Authorization Request & Information Reporting (Section 5 of the Smoke Management Plan Application Form in Appendix B) or other suitable form can be used for this purpose.
- c) A report of the agricultural and prescribed burning conducted each calendar year in the District is submitted to ARB within 45 days of the end of each calendar year. The report includes the estimated tonnage and/or acreage for each type of waste burned from both agricultural and prescribed burning by county.
- d) The District also reports all special permits (no-burn day permits) issued each calendar year within 45 days of the end of each calendar year. This report includes the number of such permits issued, the date of issuance of each permit, the person or persons to whom the permit was issued, an estimate of tonnage and/or acreage for each type of waste burned pursuant to the permit, and a summary of the reasons why denial of each permit would have threatened imminent and substantial economic loss.
- e) Upon full implementation of the Prescribed Fire Incident Reporting System (PFIRS) or other suitable electronic reporting system, and upon proven effectiveness of this system, the District will fully participate to the greatest extent possible and encourage, if not require, MCABSMA members full cooperation and participation.



Section 3 - Burn Authorization System

- a) The District operates a daily burn authorization system that regulates agricultural and prescribed burning. The burn authorization system specifies the amount, timing, and location for each burn project within the District boundaries.
- b) The purpose of the burn authorization system is to minimize smoke impacts in smoke sensitive areas, avoid cumulative smoke impacts, and prevent public nuisance. As such all burn authorization requests are evaluated first by these considerations.
- c) In evaluating burn authorization requests the Air District considers the following factors:
 - air quality;
 - meteorological conditions expected during burning;
 - types and amounts of materials to be burned;
 - location and timing of materials to be burned;
 - locations of smoke sensitive receptors;
 - smoke from all burning activities, including burning in neighboring air districts or regions which may affect the air quality in the District; and
 - historical data from previous burning.

Burn authorizations may be issued to land managers and burners for specific burn projects 24 hours in advance of ignition of each project. To obtain District authorization to burn any project, the land manager or burner must contact the District via telephone, fax, E-mail, or in person announcing the intent to burn. The burner must submit the Daily Authorization Request & Information Reporting or other suitable form to the District (Section 5 of the Smoke Management Plan Application Form in Appendix B). Using the above criteria, the District staff would either grant or deny authorization to burn. When two or more burns are proposed for the same day and in the same general location, if necessary to avoid smoke impacts, the burn agencies will coordinate amongst themselves and decide which burn will proceed. Once a burn authorization is granted it is only rescinded if meteorological conditions change such that adverse air quality impacts are likely.

- d) A burn authorization from the District only authorizes the ignition of a burn if the smoke management conditions specified in the project's Smoke Management Plan are met at the time of ignition and for the duration of the burn. A burn authorization does not relieve the burner from meeting the conditions of the smoke management plan. It is the burner's responsibility to ensure all conditions listed in the Smoke Management Plan are met prior to ignition. To validate the specific smoke transport conditions that exist on each site the land manager/burner will launch a helium-filled balloon, set a test fire, rely on local weather forecasts, special weather forecasts, RAWS or other validation method, as specified in their Smoke Management Plan.

- e) To receive a burn authorization for burning on a No Burn Day, the land manager/burner must submit a completed Authorization to Burn on a No Burn Day Burn application to the District as soon possible prior to ignition. As a prerequisite to burning on a No Burn Day, the District requires that the burn project be entered with ARB and shall have received the 48/72/96 notices for at least 3 days prior to ignition. In addition, the District may require the land manager/burner to supply on-site or RAWS meteorological weather observations, site specific weather forecasts, or other information necessary to assist in authorizing the burn project.
- f) In order to assist the land managers/burners in their planning process, the District may require the land managers/burners to enter their burn project with ARB to receive a 48-hour forecast, 72-hour outlook, and a 96-hour trend. To accomplish this, the land manager/burner shall submit a completed CB-3 form to the ARB. The land managers/burners shall indicate the District's contact information on the CB-3 form to ensure the ARB provides the forecast information to the District. The land manager/burner may contact the District after 3 p.m. Monday through Friday or the ARB before 4 p.m. on weekends and holidays to obtain the forecast information only if the ARB does not provide that information directly to the land manager/burner. These forecasts are not a substitute for a burn authorization, and contain no guarantee that a favorable forecast will necessarily lead to a burn authorization approval, but are intended solely to help in burn project planning.
- g) The District maintains a daily log, recording burn authorizations, location of the burns, amounts of material burned, planned and unplanned wildfires occurring that day, and any other relevant information related to smoke impacts for that day. This data is used in the burn authorization process for subsequent days and in evaluating the success and efficiency of the smoke management program. The District also maintains maps indicating burn locations in the District for easy reference of daily burning, location of smoke sensitive receptors, and potential cumulative smoke impacts from other burning in the region.
- h) Multi-day burns require authorization on a daily basis from the District and consultation with the ARB.
- i) If smoke from a project may impact other Districts or states, District staff shall notify the appropriate air quality agency by faxing or by other electronic means the Controlled Burn/Prescribed Fire Notification (Appendix C) as soon as practical and prior to ignition. Any concerns these agencies have over the planned burn will be incorporated into the authorization.
- j) If increased burning activities causes competition for burning between burn agencies, the District will, in coordination with MCABSMA members, establish guidelines for prioritizing all agricultural burns, including prescribed burns. In considering priorities, the District shall consider the public benefits of burn projects, including safety, public health, forest health and wildfire prevention, ecological needs, economic concerns, and disease and pest prevention.

Efforts to reduce smoke emissions, such as removal of excess material, shall also be considered.

- k) The District operates a burn day information recording (209) 966-1200 or (888) 440-BURN (2876) to announce the daily burn day decision in the District. The District consults with the ARB and fire agencies as necessary to make the final determination.

Section 4 - Smoke Management Planning

- a) Each prescribed burn project will be registered for smoke management planning purposes as described in Section 2a.
- b) Burn projects less than 10 acres in size or that will emit less than one ton of particulate matter may only need to obtain an air permit. Burn projects greater than 10 acres or that will emit in excess of one ton of particulate matter must complete a District Smoke Management Plan. Before issuing an authorization to burn, the District, at its discretion, may require additional smoke management procedures to be used if a burn: 1) is greater than 100 acres in size, 2) may impact smoke sensitive areas, or 3) presents other potential problems.
- c) The following minimum smoke management actions will be considered for every burn project, and may require written submittal to the District of the actions taken consistent with the guidelines above and the District Smoke Management Plan form:
 - 1) **Meteorological Prescription:** Provide a detailed meteorological prescription that must be met to proceed with the burn. At a minimum the prescription must include acceptable wind direction. Other considerations may include wind speed, temperature profile, winds aloft, humidity, temperature, actual and predicted inversions, burn day status, and forecast precipitation. The District may require weather forecasts to be obtained to make smoke management decisions for the burn project.
 - 2) **Contingency Actions:** The actions the burner will take if smoke from the burn project produces unacceptable smoke impacts, which may include: stopping further ignitions, active fire suppression, rapid mop up, and other appropriate techniques that are discussed with the District.
 - 3) **Smoke Mitigation:** Actions that will be taken to minimize smoke from the burn, which may include: minimum drying times/fuel moistures, piling and/or windrowing materials, active mop up of smoldering, pretreatment of fuels, and other appropriate techniques.
 - 4) **Burning Alternatives:** Describe the alternatives to burning which have been considered for this burn project and the basis of why the alternatives were not feasible or justified. Alternatives are listed in the SMP. Additionally for projects requiring NEPA/CEQA environmental documentation, alternatives to burning are addressed in the air quality section of such documents. The location of these documents is noted in the SMP.
 - 5) **Smoke Sensitive Receptors:** A description of what smoke sensitive receptors, such as towns, schools, or roads, is required along with a map showing the location of sensitive receptors and predicted smoke travel.
 - 6) **Public Notification:** The potentially affected public will be notified of the burn project by one or all of the following: media announcements phone contact lists, road signs, and other appropriate techniques.

- 7) **Complaint Handling Procedures:** A procedure shall be developed that insures that all complaints regarding smoke impacts received by a company or individual conducting the burn are promptly reported to the District.
- 8) **Smoke Monitoring:** Describe the procedures that will be used to monitor and track the smoke transport from the burn project, which may include: a smoke spotter to check on downwind sites, ambient air monitoring, aerial monitoring, or other appropriate methods.
- d) **Naturally Ignited Wildland Fires:** A District Smoke Management Plan shall be completed and submitted to the appropriate Air District within 72 hours from the start of a burn if the size of the fire is expected to exceed ten acres in size and will be managed for resource benefit. When a natural ignition occurs on a no-burn day, the initial "go/no-go" decision to manage the fire for resource benefit will be a "no-go" unless:
- 1) After consultation with your Air District, the Air District staff decide, for smoke management purposes, that the burn can be managed for resource benefit; or
 - 2) For periods of less than 24 hours, a reasonable effort has been made to contact the District, or if the District is not available, the Air Resources Board (ARB); or
 - 3) After 24 hours, the District has been contacted, or if the District is not available, the ARB has been contacted and concurs that the burn can be managed for resource benefit.
- A "no-go" decision does not necessarily mean that the fire must be extinguished, but that the fire cannot be considered as a prescribed fire.
- e) District staff will maintain the highest possible level of training with regards to smoke management. Staff that are assigned to the District's agriculture and prescribed burning program will attend smoke management workshops, seminars, and training sessions. Participation and cooperation in smoke management alliances, Interagency Air and Smoke Council (IASC) meetings, and Mountain Counties Air Basin Technical Advisory Committees will be mandatory. When the Prescribed Fire Incident Reporting System (PFIRS) or some other electronic substitute, becomes available, the District will participate to the fullest extent possible.
- f) Commencing on April 1, 2001, the District began taking part in an experimental ARB program which will refine the daily permissive burn day status to one of four categories; marginal, fair, good, and superior burn days. These ARB decisions will assist the District in issuing burn authorizations, especially for those multi-day or large single-day burn projects
- g) For those burns that are either in excess of 250 acres, created smoke impacts or were burned on No Burn Days, the responsible burn agency must complete a District Project Post Burn Form. These are to be completed and returned to the District within 30 days from the completion of the burn project. This information will then be reviewed and can assist in issuing burn authorizations for similar projects.

- h) All agricultural burning projects (for the purpose of this subsection excludes prescribed burn projects) will be registered with the District for smoke management planning purposes through the permitting process as described in Section 1. Agricultural burning projects are required to abide by air permit conditions that include general smoke management under Regulation III.

Section 5 - District Resources

a) General District Resources

The District consists of 0.5 full time employee (FTE) and a 5 member Board of Directors. The 0.5 FTE (Air Pollution Control Officer, Deputy APCO (serving as inspector) and office support staff) will be responsible to carry out this Program, especially the permitting, enforcement and decision-making functions. The District will rely on the ARB for forecasting and the MCABSMA for planning.

b) Meteorological Resources

The District relies primarily on the ARB to provide the daily burn day decision and the 48/72/96 hour forecasts to guide the burn authorization. To augment its forecasting tools, the ARB funds a local meteorological data gathering flight out of Columbia (Tuolumne County) to obtain more accurate data on atmospheric conditions in the air basin.

The District utilizes the internet as a tool to access general weather trends, RAWS data, and fire weather forecast data for specific burns.

The District may also utilize special weather forecasts obtained by burn agencies through the Interagency Fire Forecast and Warning Unit, especially for burn projects that are large or located near sensitive receptors.

c) Air Monitoring Resources

Currently no particulate matter ("PM") monitoring stations are located within the District. Until the time the District institutes PM monitoring, the District will make visual observations at selected viewpoints to measure visibility and may decide to reduce burning on days where visibility is impaired. The U.S. Forest Service owns data ram monitoring equipment that can provide real time particulate matter data during large U.S. Forest Service burn projects that have the potential to impact smoke sensitive areas.

Section 6 - Inspection and Enforcement

- a) Subject to the constraints of time and availability, District staff conducts on-site inspections of a representative number of agricultural and prescribed burns each year. Such inspections are prioritized based on the following criteria:
 - 1. active burns that are conducted in an area or by a source that historically generates many complaints;
 - 2. active burns that are generating complaints;
 - 3. active burns that are large (100+ acres) or located near sensitive receptors; and
 - 4. planned burns representing a variety of sources and fuels.
- b) Inspections of active burns document that meteorological conditions are within acceptable parameters; that the amount of acreage and/or fuel given in the burn registration and authorization is what is actually being burned; and that the burn is not impacting any sensitive receptors.
- c) Inspections of planned burns document that the projected acreage and/or fuel loading is consistent with that reported in the burn registration; that the meteorological prescription is reasonable for the location; and that actions taken to reduce fuel loading and/or smoke emissions have been carried out.
- d) If unacceptable smoke impacts occur to a smoke sensitive area from an authorized burn, and such impacts are verified by District staff, then the burner is promptly notified and required to take such contingency actions as are possible.
- e) Notices of Violation issued for violations of the District's Smoke Management Program are handled according to the District's Mutual Settlement Program.

Mountain Counties Air Basin Smoke Management Alliance

CHARTER

1/14/00

STATEMENT OF PURPOSE

The Mountain Counties Air Basin Smoke Management Alliance is established and maintained to provide coordination and uniformity in smoke management efforts in the Mountain Counties Air Basin (MCAB), recognizing the need for and role of fire in ecosystems management and fuel reduction while protecting the public health.

GOALS

- Minimize smoke impacts on smoke sensitive areas.

- Consistency and predictability:
 - Smoke Management Plan (SMP) forms.
 - Rules related to Title 17 Smoke Management Guidance.
 - Post-burn smoke management evaluation forms.
 - Permit conditions and application process.
 - Requesting 48-72 forecasts.
 - Ignition decisions.
 - Fees to recover district program costs.
 - Burn coordination procedures for determining timing and placement of burns.
 - Monitoring/surveillance of smoke.

- Communication, coordination, and cooperation:
 - Annual pre-season notification of upcoming projects.
 - Annual mid-season update of projects.
 - Post-season/post-burn smoke management evaluations, as needed.
 - Cooperation of burn project public notifications and cross-jurisdictional notifications.
 - Burn authorization and burn project coordination procedures.
 - Complaint coordination.

- Development of tiered requirements based on potential for smoke impacts:
 - Information required in SMPs.
 - SMP review and inspections.
 - Cost recovery/fees.

MEMBERSHIP

- MCAB Air Districts.
- State, federal, and private land managers (hereinafter, "land managers") that conduct prescribed burns on lands within the MCAB.
- Interested parties: Neighboring jurisdictions with potential smoke impacts from burn projects conducted within the MCAB, and state and federal oversight agencies are welcome to attend meetings to communicate concerns and share information, but will not be "voting" members.

MEETING FREQUENCY

Bi-annual (twice per year):

- January meeting: This meeting will have the primary purpose of providing each land manager's annual pre-season notification of planned upcoming burn projects. Maps and big-picture information are requested.
- June (toward the end of the month): This meeting will have the primary purpose of providing each land manager's update on completed and planned burn projects.

Note: Additional agenda items, as determined by the membership, will be included, with subject matter generally within the intent of the goals listed above.

MEETING HOST

The meeting host will alternate between the MCAB Technical Advisory Committee (TAC) Chairman and a designated land manager member. The meeting host is responsible for developing the agenda (with membership input), distributing the agenda, making arrangements for meeting place, distributing the meeting minutes from the prior meeting with the agenda, chairing the meeting they host, and coordinating the completion of minutes for the meeting.

- January meeting: MCAB Technical Advisory Committee Chairman.
- June meeting: Land manager (rotation).

COMMUNICATION

The current MCAB TAC Chair will be the point of contact for the air districts. The land manager membership will designate a point of contact (initially Christie Neill). E-mail will be used to the greatest extent feasible to reduce communication costs. The points of contact will maintain and coordinate membership/interested party lists with mailing addresses, phone numbers, fax numbers, and e-mail addresses. Lists will be updated at least annually. Points of contact will be responsible for communicating with their respective membership.

SMOKE MANAGEMENT PLAN - SHORT FORM

In accordance with the air district's Smoke Management Program, this Smoke Management Plan (SMP) serves as an addendum to the air district's permit application. District staff may assist the applicant in completing this form. Once approved by the air district, this SMP serves as a conditional permit to burn, when combined with the standard single page permit to burn.

This SMP is required for all Land Development Clearing Burns. This form may also be used when Forest Management Burning and Range Improvement Burning is conducted by a small, independent forester or private property owner. In the Mariposa County Air Pollution Control District this plan is not required for burn projects less than ten acres in size.

The information required herein is the minimum information needed to evaluate the effectiveness of smoke management activities. Further information may be needed if the proposed burn 1) is large (greater than 100 acres), 2) has the potential to impact a smoke sensitive area, 3) may have multi-jurisdictional smoke impacts, or 4) has other complexities which make more information necessary.

I. General Information

Permit No.: _____
 Project: _____ Legal location: T. _____ R. _____ S. _____ Acres _____
 Duration of Burn: Ignition _____ days, Burndown _____ days, Total _____ days

II. Wind Prescription

Wind direction surface: Ideal: _____ Acceptable: _____
 Unacceptable: _____
 Wind direction aloft (transport direction):
 Ideal: _____ Acceptable: _____
 Unacceptable: _____
 Identify potential meteorological conditions that would prohibit acceptable smoke dispersal:

III. Smoke Dispersal Surveillance and Monitoring

- Smoke surveillance and monitoring will be accomplished by all of the following techniques (e.g. before, during and post-burn). (Note: indicate timing of each technique.) All weather and surveillance records shall be filed in the project folder and be available for air district review upon request.

Test Fire: _____ Balloon: _____ Visual Monitoring: _____
 Weather Forecast: _____ On-site weather observations: _____

- Method/Location of visual monitor(s):
- Interval of smoke dispersal monitoring:

IV. Identification of Smoke Sensitive Areas (SSA). SSAs include population centers (e.g. towns, villages, developments), hospitals, schools, daycare centers, nursing homes, shopping centers, public events, and may include campgrounds and trails inhabited by significant numbers of people.

Could any Smoke Sensitive Areas be affected by project? Yes: _____ No: _____
 Identify SSA or receptors that could be adversely affected by this project:

SSA	Distance/Direction From Fire	Unacceptable Conditions
_____	_____	_____
_____	_____	_____
_____	_____	_____

Does the planned prescribed fire have the potential to impact another air district or state?
 Likely: _____ Unlikely: _____ List likely: _____

Historically, has prescribed burning in this area impacted any SSA?
 Yes: _____ No: _____ If yes, list conditions that led to impact: _____

V. Mitigations

Mitigations shall be used to reduce smoke impacts, especially if it is likely that the smoke will impact a smoke sensitive area. Items checked below shall be implemented as conditions of the permit.

- Limit burning to _____ Piles or _____ acres per day.
- No more than _____ piles shall be burning at one time.
- Allow _____ hours between ignition of _____ (piles/units)
- Mop up within 6 hrs _____, 12 hrs _____, 18 hrs _____, 24 hrs _____
- Burn window: Begin ignitions(time): _____ Terminate ignitions(time): _____
- Other, explain: _____

VI. Contingencies

Actions shall be taken if smoke impacts a smoke sensitive area and can be practically and safely implemented. Adequate resources/assets will be provided for items checked below:

- _____ Stop ignitions (allow fire to burn to contingency control lines)
- _____ Fire suppression
- _____ Begin mop up immediately
- _____ Begin mop up within _____ hrs
- _____ Complete mop up within _____ hrs
- _____ Discontinue mop-up if favorable conditions return
- _____ Other, explain: _____

List equipment that will be on-scene or readily available to implement contingencies listed above: _____

VII. Public Notification

All of the actions checked below will be taken to advise the SSA that burning is planned and to assure actions are being done to minimize the impact of smoke. When the burning is imminent, known sensitive receptors will be contacted.

- | | |
|------------------------------|---|
| <u>Type of Notification</u> | <u>Describe the activity and timing</u> |
| _____ Posters/flyers/letters | |
| _____ Door to door | |
| _____ Signing | |
| _____ Personal phone calls | |
| _____ Other, explain: | |

If potential impacts were identified in Section IV, additional notifications may be required within the impacted area. Please describe the additional notification(s) that will be accomplished in potentially impacted areas.

VIII. Complaint Procedures

- 4. The following shall be obtained from complainants:
Name, location, phone number, short description of situation, areas affected, whether people are physically suffering from smoke effects, and/or are there public safety concerns from reduced visibility.
- 5. All smoke related complaints shall be forwarded immediately to the air district and the field supervisor.
- 6. The field supervisor, in coordination with the air district, shall seek resolution for all complaints, as necessary.

IX. Contacting Responsible officials

Note: Do not display personal phone information in burn or smoke plans.

Make available to the air district who and how the field supervisor can be reached in the field (provide cell phone #s, dispatch number, or other).

X. Approvals

___ Approved as submitted: _____
Air district signature

___ Approved with changes or conditions: _____
Air district signature

Changes/conditions:

___ DISAPPROVED as submitted: _____
Air district signature

for the following reasons:

SMOKE MANAGEMENT PLAN

In accordance with the air district's Smoke Management Program, this Smoke Management Plan (SMP) serves as a permit application that is to be completed by the applicant and submitted to air district officials. Once approved by the air district, this SMP serves as a conditional permit to burn, when combined with the standard single page permit to burn.

This SMP is required for all prescribed burns (Forest Management Burning, Range Improvement Burning, Wildland Vegetation Management Burning). In the Northern Sierra Air Quality Management District this plan is not required for burn projects less than five acres in size.

The information required herein is the minimum information needed to evaluate the effectiveness of smoke management efforts. Further information may be needed if the proposed burn 1) is large, 2) has the potential to impact a smoke sensitive area, 3) may have multi-jurisdictional smoke impacts, or 4) has other complexities which make more information necessary.

Information may need to be extracted from the project burn plan to supplement the SMP. Air district review of the burn plan is for informational purposes only. When the burn plan is reviewed, the air district assumes no approval authority or liability for approving the burn plan. The burn agency is responsible for providing firefighter and public safety, which is not the intent of the information included on this form.

Terms use in this form have the same meaning as those defined in the air district's open burning regulation definitions or the California Code of Regulations, Title 17, §80101. Where differences occur, the air district's definitions apply.

I. General Information

Permit No.:

Project: _____ Legal location: T. _____ R. _____ S. _____ Acres _____

Indicate the category of prescribed burning this project best applies to:

- ___ *Forest Management Burning*: use of open fires, as part of a forest management practice, to remove forest debris or for forest management practices which include timber operations, silvicultural practices, or forest protection practices.
- ___ *Range Improvement Burning*: use of outdoor fires to remove vegetation for a wildlife, game, or livestock habitat or for the initial establishment of an agricultural practice on previously uncultivated land.
- ___ *Wildland Vegetation Management Burning*: the use of prescribed burning conducted by a public agency, or through a cooperative agreement with a private manager or contract involving a public agency, to burn land predominantly covered with chaparral (as defined in Title 14, California Code of Regulations, section 1561.1), trees, grass, or standing brush.

Type of project: Machine pile burn _____, Hand pile burn _____, Landing pile burn _____
Broadcast _____ Understory _____

Vegetation type: Brush _____, Grass _____, Timber Litter _____, Timber Slash _____

Desired Season: _____ Otherwise Acceptable _____

Will an ARB Controlled Burn Notice 48/72 be requested? Yes _____ No _____

Project/Unit elevation (ft): Top: _____, Bottom: _____

Duration of Burn: Ignition _____ days, Burndown _____ days, Total _____ days



Is this burn located in Review Area or Non-Review Area _____ (NSAQMD only)

II. Emissions Estimates

Required by air district: _____ Not required by air district: _____
Project in attainment area or nonattainment area? _____
EPA-approved method used to calculate emissions: _____
Total estimated emissions: Particulate Matter (PM 10) _____ tons

Emission reductions realized by utilizing reduction techniques listed in Section VI-
Mitigations: PM 10: _____ tons

III. Wind Prescription

Wind direction surface: Ideal: _____ Acceptable: _____
Unacceptable: _____
Wind direction aloft (transport direction):
Ideal: _____ Acceptable: _____
Unacceptable: _____
Identify potential meteorological conditions that would prohibit acceptable smoke dispersal:

IV. Smoke Dispersal Surveillance and Monitoring

1. Smoke surveillance and monitoring will be accomplished by all of the techniques indicated below (e.g. before, during and post-burn). (Note: indicate timing of each technique.) All weather and surveillance records shall be filed in the project folder and be available for air district review upon request.

Test Fire: _____ Balloon: _____ RAWS: _____ Aircraft: _____
Visual Monitoring: _____ Weather Forecast: _____
On-site weather observations: _____

2. Method/Location of visual monitor(s):
3. Interval of smoke dispersal monitoring:

V. Identification of Smoke Sensitive Areas (SSA). SSAs include population centers (e.g. towns, villages, developments), hospitals, schools, daycare centers, nursing homes, shopping centers, public events, and may include campgrounds and trails inhabited by significant numbers of people.

Could any Smoke Sensitive Areas be affected by project? Yes: _____ No: _____
Identify SSA or receptors that could be adversely affected by this project:

SSA	Distance/Direction From Fire	Unacceptable Conditions
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- a. Does the planned prescribed fire have the potential to impact a Class I area?
Likely: _____ Unlikely: _____ List likely: _____
- b. Does the planned prescribed fire have the potential to impact another air district or state? Likely: _____ Unlikely: _____ List likely: _____
- c. Is the planned prescribed fire located in more than one air district?
Yes: _____ No: _____ If yes, list: _____
- d. Historically, has prescribed burning in this area impacted any SSA?
Yes: _____ No: _____ If yes, list conditions that led to impact: _____

VI. Mitigations

Mitigations shall be used to reduce smoke impacts, especially if it is likely that the smoke will impact a smoke sensitive area. Items checked below shall be implemented as conditions of the permit.

Limit burning to _____ Piles or _____ acres per day.

No more than _____ piles shall be burning at one time.

Allow _____ hours between ignition of _____ (piles/units)

Mop up within 18 hrs _____, 24 hrs _____, 48 hrs _____, 72 hrs _____.

Special weather condition forecast: _____

Burn window: Begin ignitions(time): _____ Terminate ignitions(time): _____

Other, explain: _____

VII. Contingencies

Actions shall be taken if smoke impacts a smoke sensitive area and can be practically and safely implemented. Adequate resources/assets will be provided for items checked below:

_____ Stop ignitions, except as needed to maintain control of fire (allow fire to burn to contingency control lines).

_____ Fire suppression

_____ Begin mop up immediately.

_____ Begin mop up within _____ 18 hrs, _____ 24 hrs, _____ 48 hrs.

_____ Complete mop up within _____ 18 hrs, _____ 24 hrs, _____ 48 hrs.

_____ Discontinue mop-up if favorable conditions return.

_____ Other, explain: _____

List equipment that will be on-scene or readily available to implement contingencies listed above:

VIII. Public Notification

All of the actions checked below will be taken to advise the SSA that burning is planned and to assure actions are being done to minimize the impact of smoke. When the burning is imminent, known sensitive receptors will be contacted.

Type of Notification

Describe the activity and timing

- Radio stations
- Newspaper
- Posters/flyers/letters
- Television
- Door to door
- Signing
- Personal phone calls
- Other, explain:

If potential impacts were identified in Section V, additional notifications may be required within the impacted area. Please describe the additional notification(s) that will be accomplished in those potential impact areas.

IX. Complaint Procedures

1. The following shall be obtained from complainants:
Name, location, phone number, short description of situation, areas affected, whether people are physically suffering from smoke effects, and/or are there public safety concerns from reduced visibility.
2. All smoke related complaints shall be forwarded immediately to the air district and either the Prescribed Fire Manager or Incident Commander.
3. The Prescribed Fire Manager or Incident Commander, in coordination with the air district, shall seek resolution for all complaints, as necessary.
4. A log of all complaint calls related to a burn project shall be kept in the project file folder for a period of one year from the conclusion of the burn project.

X. Contacting Responsible officials

Note: Do not display personal phone information in burn or smoke plans.

Make available to the air district who and how the Prescribed Fire Manager/Incident Commander/Burn Boss can be reached in the field (provide cell phone #s, dispatch number, or other).

XI. Attach the Following Maps to the Smoke Management Plan

- Desired range of day-time plume path during ignition
- Possible night time smoke path
- Smoke sensitive areas
- Interior cut off lines
- Interior unit size (acres)
- Inversion impact area

XII. Approvals

SMP Preparer Agency : _____

SMP Preparer' s Name (print): _____



SMP Preparer' s Title: _____

SMP Preparer' s Phone #: _____ SMP Submittal Date: _____

SMP Preparer' s Signature: _____

AIR DISTRICT USE ONLY BELOW THIS LINE

___ Approved as submitted: _____

Air district signature

___ Approved with changes or conditions: _____

Air district signature

Changes/conditions:

___ DISAPPROVED as submitted: _____

Air district signature

for the following reasons:

**MARIPOSA COUNTY
AIR POLLUTION CONTROL DISTRICT
Controlled Burn/Prescribed Fire Notification**

Agencies checked below are hereby advised that a controlled burn or prescribed fire is scheduled to take place within the jurisdiction of the Mariposa Air District. Details are outlined below. Please call if there are questions.

<u>To:</u>	<u>MCAB & Others (check members being notified)</u>	<u>Fax Number</u>
<input type="checkbox"/>	Calaveras County APCD	(209)754-6521
<input type="checkbox"/>	El Dorado County APCD	(530)642-1531
<input type="checkbox"/>	Great Basin Unified APCD	(760)872-6109
<input type="checkbox"/>	Mariposa County APCD	(209)966-8248
<input type="checkbox"/>	Northern Sierra AQMD	(530)274-7546
<input type="checkbox"/>	Placer County APCD	(530)889-7107
<input type="checkbox"/>	Tuolumne County APCD	(209)533-5520
<input type="checkbox"/>	ARB Meteorology	(916)445-0786
<input type="checkbox"/>	Nevada, Bureau of Air Quality	(775)687-6396

From: Mariposa County Air Pollution Control District Phone: 209-966-2220

Fire location: _____

Date ignition starts: _____ Date ignition ends: _____

Estimated acreage to be burned: _____

Description of material to be burned: _____

Agency responsible for the fire: _____

Contact person: _____ Phone: _____

Report complaints to: _____ Phone: _____

Comments: _____

Notification provided by: _____ Date: _____