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## ***Prescribed Fire Plan Template***

A standardized, reproducible template form for the Prescribed Fire Plan development process is included in this appendix. A standardized format is provided for the Prescribed Fire Plan in PDF. An electronic version editable in Word is also available. Users should prepare the plan using the electronic version.

In the electronic Word version, the Project Name and/or Unit Name should be entered in the document's header which will automatically appear on each following page of the plan.

To insert information into the document's header:

1. Double-click in the header region (upper region of each page displayed on the screen).
2. Type Project and/or Unit information.
3. Double-click *outside* the header region in the body of the document.

You may also access the header under **View > Headers and Footers**. This will open the header region for edits automatically. After entering the information, go again to **View > Headers and Footers** which will return you to being able to enter information into the body of the document.

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**PRESCRIBED FIRE PLAN**

**ADMINISTRATIVE UNIT(S):** \_\_\_\_\_

**PRESCRIBED FIRE NAME:** \_\_\_\_\_

**PREPARED BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

Name & Qualification

**TECHNICAL REVIEW BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

Name & Qualification

**COMPLEXITY RATING:** \_\_\_\_\_

**APPROVED BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

Agency Administrator

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 2: AGENCY ADMINISTRATOR PRE-IGNITION APPROVAL CHECKLIST**

Instructions: The Agency Administrator’s Pre-Ignition Approval is the intermediate planning review process (i.e. between the Prescribed Fire Complexity Rating System Guide and Go/No-Go Checklist) that should be completed before a prescribed fire can be implemented. The Agency Administrator’s Pre-Ignition Approval evaluates whether compliance requirements, Prescribed Fire Plan elements, and internal and external notifications have been or will be completed and expresses the Agency Administrator’s intent to implement the Prescribed Fire Plan. If ignition of the prescribed fire is not initiated prior to expiration date determined by the Agency Administrator, a new approval will be required.

YES	NO	KEY ELEMENT QUESTIONS
		Is the Prescribed Fire Plan up to date? <i>Hints: amendments, seasonality.</i>
		Will all compliance requirements be completed? <i>Hints: cultural, threatened and endangered species, smoke management, NEPA.</i>
		Is risk management in place and the residual risk acceptable? <i>Hints: Prescribed Fire Complexity Rating Guide completed with rational and mitigation measures identified and documented?</i>
		Will all elements of the Prescribed Fire Plan be met? <i>Hints: Preparation work, mitigation, weather, organization, prescription, contingency resources</i>
		Will all internal and external notifications and media releases be completed? <i>Hints: Preparedness level restrictions</i>
		Will key agency staff be fully briefed and understand prescribed fire implementation?
		Are there any other extenuating circumstances that would preclude the successful implementation of the plan?
		Have you determined if and when you are to be notified that contingency actions are being taken? Will this be communicated to the Burn Boss?
		Other:

Recommended by: \_\_\_\_\_ Date: \_\_\_\_\_  
FMO/Prescribed Fire Burn Boss

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Agency Administrator

Approval expires (date): \_\_\_\_\_

APPENDIX H - SUPPLEMENTAL INFORMATION

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 2: PRESCRIBED FIRE GO/NO-GO CHECKLIST**

<p><b>A.</b> Has the burn unit experienced unusual drought conditions or contain above normal fuel loadings which were not considered in the prescription development? If <u>NO</u> proceed with checklist., if <u>YES</u> go to item B.</p>	<b>YES</b>	<b>NO</b>
<p><b>B.</b> If <u>YES</u> have appropriate changes been made to the Ignition and Holding plan and the Mop Up and Patrol Plans? If <u>YES</u> proceed with checklist below, if <u>NO</u> STOP.</p>		

YES	NO	QUESTIONS
		Are ALL fire prescription elements met?
		Are ALL smoke management specifications met?
		Has ALL required current and projected fire weather forecast been obtained and are they favorable?
		Are ALL planned operations personnel and equipment on-site, available, and operational?
		Has the availability of ALL contingency resources been checked, and are they available?
		Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?
		Have all the pre-burn considerations identified in the Prescribed Fire Plan been completed or addressed?
		Have ALL the required notifications been made?
		Are ALL permits and clearances obtained?
		In your opinion, can the burn be carried out according to the Prescribed Fire Plan and will it meet the planned objective?

**If all the questions were answered "YES" proceed with a test fire. Document the current conditions, location, and results**

\_\_\_\_\_ Burn Boss

\_\_\_\_\_ Date

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 3 COMPLEXITY ANALYSIS SUMMARY**

<b>PRESCRIBED FIRE NAME</b>			
<b>ELEMENT</b>	<b>RISK</b>	<b>POTENTIAL CONSEQUENCE</b>	<b>TECHNICAL DIFFICULTY</b>
1. Potential for escape			
2. The number and dependence of activities			
3. Off-site Values			
4. On-Site Values			
5. Fire Behavior			
6. Management organization			
7. Public and political interest			
8. Fire Treatment objectives			
9. Constraints			
10. Safety			
11. Ignition procedures/ methods			
12. Interagency coordination			
13. Project logistics			
14. Smoke management			

<b>COMPLEXITY RATING SUMMARY</b>	
	<b>OVERALL RATING</b>
<b>RISK</b>	
<b>CONSEQUENCES</b>	
<b>TECHNICAL DIFFICULTY</b>	
<b>SUMMARY COMPLEXITY DETERMINATION</b>	
<b>RATIONALE:</b>	

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 4: DESCRIPTION OF PRESCRIBED FIRE AREA**

**A. Physical Description**

1. Location:
2. Size:
3. Topography:
4. Project Boundary:

**B. Vegetation/Fuels Description:**

1. On-site fuels data
2. Adjacent fuels data

**C. Description of Unique Features:**

**ELEMENT 5: GOALS AND OBJECTIVES**

**A. Goals:**

**B. Objectives:**

1. Resource objectives:
2. Prescribed fire objectives:

**ELEMENT 6: FUNDING:**

**A. Cost:**

**B. Funding source:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 7: PRESCRIPTION**

**A. Environmental Prescription:**

**B. Fire Behavior Prescription:**

**ELEMENT 8: SCHEDULING**

**A. Ignition Time Frames/Season(s):**

**B. Projected Duration:**

**C. Constraints:**

**ELEMENT 9: PRE-BURN CONSIDERATIONS**

**A. Considerations:**

1. On Site:
  
2. Off Site

**B. Method and Frequency for Obtaining Weather and Smoke Management Forecast(s):**

**C. Notifications:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 10: BRIEFING**

**Briefing Checklist:**

- Burn Organization
- Burn Objectives
- Description of Burn Area
- Expected Weather & Fire Behavior
- Communications
- Ignition plan
- Holding Plan
- Contingency Plan
- Wildfire Conversion
- Safety

**ELEMENT 11: ORGANIZATION AND EQUIPMENT**

**A. Positions:**

**B. Equipment:**

**C. Supplies:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 12: COMMUNICATION**

**A. Radio Frequencies**

1. Command Frequency(s):
2. Tactical Frequency(s):
3. Air Operations Frequency(s):

**B. Telephone Numbers:**

**ELEMENT 13: PUBLIC AND PERSONNEL SAFETY, MEDICAL**

**A. Safety Hazards:**

**B. Measures Taken to Reduce the Hazards:**

**C. Emergency Medical Procedures:**

**D. Emergency Evacuation Methods:**

**E. Emergency facilities:**

**ELEMENT 14 TEST FIRE**

**A. Planned location:**

**B. Test Fire Documentation:**

1. Weather conditions On-Site:
2. Test Fire Results:

APPENDIX H - SUPPLEMENTAL INFORMATION

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 15: IGNITION PLAN**

**A. Firing Methods:**

**B. Devices:**

**C. Techniques:**

**D. Sequences:**

**E. Patterns:**

**F. Ignition Staffing:**

**ELEMENT 16: HOLDING PLAN**

**A. General Procedures for Holding:**

**B. Critical Holding Points and Actions:**

**C. Minimum Organization or Capabilities Needed:**

**ELEMENT 17: CONTINGENCY PLAN**

**A. Trigger Points:**

**B. Actions Needed:**

**C. Additional Resources and Maximum Response Time(s):**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 18: WILDFIRE CONVERSION**

**A. Wildfire Declared By:**

**B. IC Assignment:**

**C. Notifications:**

**D. Extended Attack Actions and Opportunities to Aid in Fire Suppression:**

**ELEMENT 19: SMOKE MANAGEMENT AND AIR QUALITY**

**A. Compliance:**

**B. Permits to be Obtained:**

**C. Smoke Sensitive Areas/Receptors:**

**D. Impacted Areas:**

**E. Mitigation Strategies and Techniques to Reduce Smoke Impacts:**

**ELEMENT 20: MONITORING**

**A. Fuels Information (forecast and observed) Required and Procedures:**

**B. Weather Monitoring Required and Procedures:**

**C. Fire Behavior Monitoring Required and Procedures:**

**D. Monitoring Required To Ensure That Prescribed Fire Plan Objectives Are Met:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**E. Smoke Dispersal Monitoring Required and Procedures:**

**ELEMENT 21: POST-BURN ACTIVITIES**

**Post-burn Activities That Must be Completed:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**ELEMENT 18: WILDFIRE CONVERSION**

**A. Wildfire Declared By:**

**B. IC Assignment:**

**C. Notifications:**

**D. Extended Attack Actions and Opportunities to Aid in Fire Suppression:**

**ELEMENT 19: SMOKE MANAGEMENT AND AIR QUALITY**

**A. Compliance:**

**B. Permits to be Obtained:**

**C. Smoke Sensitive Areas/Receptors:**

**D. Impacted Areas:**

**E. Mitigation Strategies and Techniques to Reduce Smoke Impacts:**

**ELEMENT 20: MONITORING**

**A. Fuels Information (forecast and observed) Required and Procedures:**

**B. Weather Monitoring Required and Procedures:**

**C. Fire Behavior Monitoring Required and Procedures:**

**D. Monitoring Required To Ensure That Prescribed Fire Plan Objectives Are Met:**

APPENDIX H - SUPPLEMENTAL INFORMATION

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**A: MAPS**

**1. Vicinity Map:**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**2. Project Map:**

APPENDIX H - SUPPLEMENTAL INFORMATION

Project Name: \_\_\_\_\_

Unit Name: \_\_\_\_\_

**C. TECHNICAL REVIEWER CHECKLIST**

PRESCRIBED FIRE PLAN ELEMENTS:	S/U	COMMENTS
1. Signature page		
2. GO/NO-GO Checklists		
3. Complexity Analysis Summary		
4. Description of the Prescribed Fire Area		
5. Goals and Objectives		
6. Funding		
7. Prescription		
8. Scheduling		
9. Pre-burn Considerations		
10. Briefing		
11. Organization and Equipment		
12. Communication		
13. Public and Personnel Safety, Medical		
14. Test Fire		
15. Ignition Plan		
16. Holding Plan		
17. Contingency Plan		
18. Wildfire Conversion		
19. Smoke Management and Air Quality		
20. Monitoring		
21. Post-burn Activities		
Appendix A: Maps		
Appendix B: Complexity Analysis		
Appendix C: JHA		
Appendix D: Fire Prediction Modeling Runs		
Other		

S = Satisfactory

U = Unsatisfactory

Recommended for Approval:

Not Recommended for Approval:

\_\_\_\_\_  
 Technical Reviewer                      Qualification and currency (Y/N)                      Date

Approval is recommended subject to the completion of all requirements listed in the comments section, or on the Prescribed Fire Plan.

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**C: COMPLEXITY ANALYSIS**

APPENDIX H - SUPPLEMENTAL INFORMATION

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**D. JOB HAZARD ANALYSIS**

**Project Name:** \_\_\_\_\_

**Unit Name:** \_\_\_\_\_

**E. FIRE BEHAVIOR MODELING DOCUMENTATION OR EMPIRICAL  
DOCUMENTATION**

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## MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT SMOKE MANAGEMENT PROGRAM

### SMOKE MANAGEMENT PLAN & PERMIT APPLICATION FORM – 2007

#### Instructions

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 the Air District officials. This SMP application consists of three sections, a Project Description section, and sections A and B. **ALL APPLICANTS MUST COMPLETE THE PROJECT DESCRIPTION SECTION (pages 4 and 5).** Both sections A and B of the SMP may need to be completed depending on the burn's potential to impact smoke sensitive areas and the size of the burn. Contact the Air District at (831) 647-9411 if you require assistance in determining which other sections must be completed. Once approved by the Air District, this SMP serves as a conditional permit to burn, when combined with the District's Smoke Management Permit.

**General Information and Requirements** regarding this SMP are provided on **pages 1 and 2**. Terms used in this form have the same meaning as those defined in the Air District's open burning regulation definition or the California Code of Regulations, Title 17, Section 80101. Where differences occur, the Air District's definitions apply. **Emission Factors** to assist with calculating burn particulate matter emissions are provided on **pages 12 and 13**. Contact the Air District if you have questions or need assistance with making these calculations.

The **District Review (page 3)** is for Air District use only, but must be kept intact with the Project Description section. The **Project Description section (pages 4 and 5)** requests general information and identifies conditions for all prescribed burn projects. It identifies the permittee and relevant contact information, who the land owner is, the project name, project location, burn size, purpose of the burn, type of fuel to be burned, and estimated emissions from the burn. It provides a checklist of additional sections of the SMP that may be filled out and attached. Finally, it requests the preparer's signature, the name of the permittee or authorized representative, and the permittee or authorized representative's signature.

**Section A (pages 6 - 8)**, must be completed and attached to the Project Description section if the burn has the potential to result in impacts to smoke sensitive areas. Smoke sensitive areas are defined as "populated areas and other areas where a district determines that smoke and air pollutants can adversely affect public health or welfare." Such areas can include, but are not limited to, towns and villages, campgrounds, trails, populated recreational areas, hospitals, nursing homes, schools, roads, airports, public events, shopping centers, and Class I Areas (areas that are mandatory visibility protection areas designated pursuant to section 169A of the federal Clean Air Act), which are the Pinnacles National Monument and the Ventana Wilderness.

**Section B (pages 9 and 10)**, is a form that must be completed and attached to the Project Description section if the burn will be greater than 100 acres or will produce more than ten tons of particulate matter. Section B identifies meteorological conditions necessary for ignition, contingency actions that will be taken if smoke impacts begin to occur from the burn, and information on consideration and use of alternatives to burning. A **Post-Burn Evaluation** form is provided on **page 11**. This form is to be used for burns greater than 250 acres or for burns that result in impacts to smoke sensitive areas.

Information may need to be extracted from the project burn plan (if available) 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 permittee is responsible for assuring firefighter and public safety, which is not the intent of the information included

APPENDIX H - SUPPLEMENTAL INFORMATION

**MONTEREY BAY**

Unified Air Pollution Control District  
serving Monterey, San Benito, and Santa Cruz counties



24580 Silver Cloud Court • Monterey, California 93940  
831/647-9411 • FAX 831/647-8501

**PRESCRIBED BURN REGISTRATION FORM - 2006**

Please type or print clearly in ink, and submit to MBUAPCD by mail or telefax

1. Project Name: \_\_\_\_\_
2. Project Location (please provide at least one of the following or attach other description):
  - a. Street address: \_\_\_\_\_
  - b. Legal description:
 

T \_\_\_\_\_ R \_\_\_\_\_

S \_\_\_\_\_ M & B \_\_\_\_\_
  - c. Lat/Long:
 

Lat \_\_\_\_ (deg.) \_\_\_\_ (min) \_\_\_\_ (sec); Long \_\_\_\_ (deg.) \_\_\_\_ (min) \_\_\_\_ (sec)
  - d. UTM coordinates: Zone: \_\_\_\_ N \_\_\_\_\_ m, E \_\_\_\_\_ m
3. For pile burning, list the estimated total amount (tons) and type of vegetation to be burned:
 

\_\_\_\_\_
4. For broadcast burning or standing vegetation, list the estimated total number of acres and type of vegetation to be burned:
 

\_\_\_\_\_
5. List which months of the year burning might be conducted:
 

\_\_\_\_\_

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

email: \_\_\_\_\_

## General Information and Requirements

### SMP Conditions Must Be Met on the Day of the Burn (CCR section 80160(j))

The land manager or his/her designee conducting a prescribed burn is required to ensure that all conditions and requirements stated in the smoke management plan are met on the day of the burn event and prior to ignition. Ignition of a burn project will not occur unless the Air District has authorized the burn on the day of the burn.\*

\* CCR 80120(e) provides that an Air District may, by special permit, authorize agricultural burning, including prescribed burning, on days designated by the ARB as no-burn days if the denial of such permit would threaten imminent and substantial economic loss.

### Conditions of Vegetative Material to be Burned (CCR section 80160 (m – p))

Material should be:

- ◆ in a condition that will minimize the smoke emitted during combustion when feasible, considering fire safety and other factors;
- ◆ piled where possible, unless good silvicultural practices or ecological goals dictate otherwise; and
- ◆ prepared so that it will burn with a minimum of smoke.

### Description of Burn Types

Forest Management Burning is the 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 is the use of outdoor fires to:

- ◆ remove vegetation for wildlife or game habitat;
- ◆ remove vegetation for livestock habitat; and
- ◆ remove vegetation for the initial establishment of an agricultural practice on previously uncultivated land.

Wildland Vegetation Management Burning is 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.

Development Burning is the use of prescribed burning for the disposal of wood waste from trees, vines, or bushes on property being developed for commercial or residential purposes. Development burning may only be conducted from December 1 through April 30.

SMOKE MANAGEMENT PLAN FOR PERMIT # \_\_\_\_\_  
Form revised 10/11/2006

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### **Determination of Smoke Sensitive Areas**

Smoke sensitive areas are defined as “populated areas and other areas where an Air District determines that smoke and air pollutants can adversely affect public health or welfare.” Such areas can include, but are not limited to, towns and villages, campgrounds, trails, populated recreational areas, hospitals, nursing homes, schools, roads, airports, public events, shopping centers, and Class I Areas (areas that are mandatory visibility protection areas designated pursuant to section 169A of the federal Clean Air Act, which are the Pinnacles National Monument and the Ventana Wilderness. If a burn is near a populated area, has potential for substantial emissions, has a long duration, or has the potential for poor smoke dispersion, a smoke sensitive area could be impacted and Section A of the SMP should be completed. Burners may obtain Air District assistance in determining if Section A should be completed.

### **Procedures for Permittees to Report Public Smoke Complaints to Air Districts to Address Smoke Management Guidelines section 80160(I)**

1. The permittee shall immediately report any air quality smoke complaints received about this burn project to the Air District with jurisdiction over the burn. A phone call to the District during normal seasonal business hours will suffice. During non-business hours a fax or voicemail message will suffice.
2. The complaint report shall include the following: the location of the smoke impact, a short description of the smoke behavior including wind direction and speed, visibility, and public safety impacts from the complainant.
3. The permittee shall inform the complainant that he or she may also contact the District directly and shall provide the District name, telephone number and address.
4. The permittee shall, in coordination with the Air District, seek resolution for all complaints, as necessary.
5. The permittee shall complete and submit a Post-Burn Evaluation form to the District.

### **Natural Ignition on a No-burn Day (CCR section 80160(h))**

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 decides, 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 Air District, or if the Air District is not available, the Air Resources Board (ARB); or
3. After 24 hours, the Air District has been contacted, or if the Air District is not available, 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.

SMOKE MANAGEMENT PLAN FOR PERMIT # \_\_\_\_\_  
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**MBUAPCD DISTRICT REVIEW**

**(For District Use Only)**

\_\_\_\_ I have reviewed and approved this SMP as a conditional burn permit to be combined with District Smoke Management Permit No. \_\_\_\_\_, which expires on \_\_\_\_\_.

\_\_\_\_ This burn project is greater than 250 acres and/or is a multi-day burn which requires ARB consultation prior to final approval pursuant to CCR 80160(g).

Date ARB Notified: \_\_\_\_\_ Date ARB approval received: \_\_\_\_\_

Smoke from this fire is expected to travel into the following non-attainment or maintenance areas:  
North Central Coast Air Basin (Monterey, San Benito and/or Santa Cruz counties) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Agency : Monterey Bay Unified Air Pollution Control District

Date: \_\_\_\_\_

**SMP Project Description**

**Complete This Section for ALL PRESCRIBED BURNS.** If your burn is less than 10 acres with less than one ton particulate matter emissions, and your burn will not impact any smoke sensitive areas, you may complete only this page and the next. Attach appropriate SMP sections for all other burns.

<b>1.1 Project Name:</b>	<b>Project Location:</b> (Report at least one of the following location descriptions if no address is available. Provide attachments as needed.)
<b>1.2 Permittee Name:</b>	<b>1.8a Legal:</b>
<b>1.3 Permittee Mailing Address:</b>	T _____
Street:	R _____
City:	S _____
State: _____ Zip: _____	M&B _____
<b>1.4 Permittee/Field Contact:</b>	<b>1.8b Lat/Long:</b>
<b>1.5 Telephone:</b>	Lat _____ (deg.) _____ (min) _____ (sec)
Fax:	Long _____ (deg.) _____ (min) _____ (sec)
email:	<b>1.8c UTM: Zone:</b> _____
<b>24-hour phone/pager:</b>	N _____ m, E _____ m
<b>1.6 Project Site (Address):</b>	<b>1.9 Project Elevation (msl feet):</b>
<b>1.7 County and Nearest Town:</b>	Top: _____ Bottom: _____
	<b>1.10 Land Owner Name:</b>
	_____
	Street: _____
	City: _____
	State: _____ Zip: _____

- 1.11 Anticipated Time of Year for Burn (Month/Year): \_\_\_\_\_
- 1.12a Is the Primary Purpose of the Burn for Fire Hazard Reduction? \_\_\_\_\_
- 1.12b Burn Type (Check one): \_\_\_\_\_ Forest Management \_\_\_\_\_ Range Improvement  
 \_\_\_\_\_ Wildland Vegetation Management \_\_\_\_\_ Natural Ignition  
 \_\_\_\_\_ Development \_\_\_\_\_ Agricultural Waste  
 (see General Information on page 1 for description of these burn types)
- 1.13 For Range Improvement Burns, Check Vegetation Management Objective:  
 \_\_\_\_\_ Wildlife or Game Habitat Improvement \_\_\_\_\_ Livestock Habitat Improvement  
 \_\_\_\_\_ Initial Establishment of an Agricultural Practice on Previously Uncultivated Land
- 1.14 Vegetation Type (in %): \_\_\_\_\_ Brush \_\_\_\_\_ Grass \_\_\_\_\_ Forest  
 \_\_\_\_\_ Other (Describe): \_\_\_\_\_
- 1.15 Vegetation Condition: \_\_\_\_\_ Machine Pile Burn \_\_\_\_\_ Hand Pile Burn  
 \_\_\_\_\_ Landing Pile Burn \_\_\_\_\_ Broadcast Burn
- 1.16 Project Area: \_\_\_\_\_ (acres)
- 1.17 Number of Piles: \_\_\_\_\_
- 1.18 Average Pile Size: \_\_\_\_\_ (see Table 1 on page 12 for assistance)
- 1.19 Total Project Fuel Loading: \_\_\_\_\_ (tons vegetation)

APPENDIX H - SUPPLEMENTAL INFORMATION

SMOKE MANAGEMENT PLAN FOR PERMIT # \_\_\_\_\_  
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- 1.20 Particulate Matter Emissions: \_\_\_\_\_ (tons PM10)  
(Use Emissions Factors Tables on pages 12-13 for assistance with emissions calculation)
- 1.21 Emission Factor Table Used or EPA-Approved Calculation Method:  
\_\_\_\_\_
- 1.22 Preferred ignition hours for the fire: \_\_\_\_\_
- 1.23 Expected burn duration (ignition to complete extinction):  
Total time: \_\_\_\_\_ (hours or days)
- 1.24 Fuel drying time and conditions prior to ignition: \_\_\_\_\_
- 1.25 Limitations on pile size, pile number, and/or acreage limitations to minimize smoke impacts (complete as appropriate): \_\_\_\_\_
- 1.26 Preferred wind direction: \_\_\_\_\_

It is the responsibility of the permittee to ensure that conditions of the SMP are met on the day of the burn. The permittee will obtain authorization to burn from the Air District contact listed below no more than 24 hours prior to ignition.\*\*

1.27 Air District Name: MBUAPCD	1.29 Contact: Compliance Division
1.28 Address: 24580 Silver Cloud Court Monterey, CA 93940	1.30 24-hr Phone: (831) 647-9411
	1.31 Fax: (831) 647-8501

The permittee will report public smoke complaints to the Air District per the procedures described in the General Information section of this SMP on page 2.

**Check as Applicable:**

- This burn could have an impact on smoke sensitive areas – I have filled out and attached all of Section A.
- This burn could have an impact on smoke sensitive areas and Air District policies require that information on meteorological conditions for ignition and contingency planning be provided – I have filled out and attached line items B.1 and B.2 of Section B.
- This burn is greater than 100 acres (or is estimated to produce greater than 10 tons of particulate matter) – I have filled out and attached all of Section B.

**Preparer’s Statement: To the best of my knowledge the information submitted in this application is complete and accurate.**

SMP Preparation Date: \_\_\_\_\_

Preparer’s Name/Title (print): \_\_\_\_\_

Preparer’s Phone (include area code): \_\_\_\_\_

Preparer’s Signature: \_\_\_\_\_

Name of Authorized Representative in Control of the Property (if applicable): \_\_\_\_\_

Permittee or Authorized Representative Signature: \_\_\_\_\_

Signature Date: \_\_\_\_\_

\*\* Burner/Air District burn authorization coordination to be determined by the Air District.

SMOKE MANAGEMENT PLAN FOR PERMIT # \_\_\_\_\_  
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**SECTION A: AS REQUIRED BY TITLE 17 AND AIR DISTRICT POLICIES, THIS SECTION APPLIES TO ALL BURNS WITH THE POTENTIAL TO IMPACT SMOKE SENSITIVE AREAS (SSAs) \***

A.1. Describe locations of SSAs and distances from burn site (miles) – (Also the attached Map# \_\_\_\_\_ shows SSAs)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A.2 The attached map# \_\_\_\_\_ provides smoke travel projections for:  
\_\_\_\_\_ Day \_\_\_\_\_ Night \_\_\_\_\_ Topographical considerations.

A.3 Has prescribed burning historically occurred in this area? \_\_\_\_\_ Yes \_\_\_\_\_ No  
\_\_\_\_\_ Don't Know

A.4 If yes, were there impacts to smoke sensitive areas? \_\_\_\_\_ Yes \_\_\_\_\_ No  
\_\_\_\_\_ Don't Know

A.5 If yes, please describe impacts:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A.6 For burns that will occur past daylight hours and/or for more than one day, please provide the Air District with contact information and a description of contact procedures that will be used to affirm that the burn project remains within the conditions specified in this SMP, and/or whether contingency actions are necessary. The permittee will follow any instructions by the Air District to communicate directly with ARB when necessary. Who will be in contact with the Air District:

\_\_\_\_\_

A.7a Telephone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

A.7b 24-hour Pager: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

A.7c Fax: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

A.7d E-mail: \_\_\_\_\_

A.8 The permittee will use the frequency and method of contact described below:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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The permittee will monitor the burn project for meteorological conditions and smoke behavior before, during, and after the burn using the following techniques and timing:

**A.9 Weather Observation (Wind Direction, Wind Speed, and Temperature):**

<u>Method</u>	<u>Details</u>
<input type="checkbox"/> Belt Weather Kit	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> RAWS	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Aircraft	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Other	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Additional Requirements:	_____
	_____
	_____

**A.10 Smoke Behavior Observations:**

<u>Method</u>	<u>Details</u>
<input type="checkbox"/> Visual	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Test Fire	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Balloon	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Aircraft	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> PM Monitoring Inst	Location _____ Beginning _____ Interval _____ Ending _____
<input type="checkbox"/> Additional Requirements:	_____
	_____
	_____

A.11a The permittee shall begin public notification before the day of burning. The notification shall be on-going until the end of burning. Check which of the following procedures will be used to notify and educate the public about this burn project.

Radio     Newspaper     Posters/flyers     Television  
 Other (Explained in A.11b below)     Telephone calls

A.11b The specifics of the notification procedure(s) checked above are as follows:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

A.12 The permittee will place appropriate signage at or near burn sites to identify the burn project to the public as noted on the attached map# \_\_\_\_\_.

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Adjacent Air Districts which may potentially be impacted by smoke travel or which have previously been impacted by smoke from similar burn projects are listed below.

A.13 Air District Name: \_\_\_\_\_

A.14 Contact: \_\_\_\_\_

A.15 Address: \_\_\_\_\_

A.16 24-hour Telephone: \_\_\_\_\_

A.17 Fax: \_\_\_\_\_

A.18 Air District Name: \_\_\_\_\_

A.19 Contact: \_\_\_\_\_

A.20 Address: \_\_\_\_\_

A.21 24-hour Telephone: \_\_\_\_\_

A.22 Fax: \_\_\_\_\_

\* **See General Information on page 1 for determining if your burn has the potential to impact a smoke sensitive area.**

\*\* **Visual smoke observation refers to observations made through the eyes of designated individuals.**

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**SECTION B: AS REQUIRED BY TITLE 17 AND AIR DISTRICT POLICIES, THIS SECTION APPLIES TO ALL BURN PROJECTS GREATER THAN 100 ACRES OR PRODUCING MORE THAN 10 TONS OF PARTICULATE MATTER**

B.1. Meteorological Conditions for Ignition

Source of Meteorological Information: \_\_\_\_\_

Surface Wind Direction:

Ideal: \_\_\_\_\_ Acceptable Range: \_\_\_\_\_ (degrees)

Surface Wind Speed:

Ideal: \_\_\_\_\_ Maximum: \_\_\_\_\_ Minimum: \_\_\_\_\_ (mph)

Transport Wind Direction:

Ideal: \_\_\_\_\_ Acceptable Range: \_\_\_\_\_ (degrees)

Relative Humidity:

Ideal: \_\_\_\_\_ Maximum: \_\_\_\_\_ Minimum: \_\_\_\_\_ (%)

Target Mixing Height Parameters: \_\_\_\_\_

Acceptable Temperature Range: \_\_\_\_\_ (degrees)

Other Considerations to Assure Acceptable Smoke Dispersion:

\_\_\_\_\_  
\_\_\_\_\_

B.2a Describe contingency actions/methods/procedures permittee will take in the event that serious smoke impacts begin to occur or meteorological conditions deviate from those specified in this SMP (for example: stop ignitions, initiate mop-up, conduct fire suppression – describe in detail):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B.2b Describe any applicable interior unit contingency cutoff lines (refer to map# \_\_\_ as appropriate):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPENDIX H - SUPPLEMENTAL INFORMATION

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B.3 Check as applicable:

- The environmental documentation required for the burn project pursuant to the National Environmental Policy Act (NEPA) or the California Environmental Quality Act (CEQA) is attached to this SMP.
- Such environmental documentation is already on file with the Air District.
- No environmental analysis was prepared as required by NEPA or CEQA.
- This project is categorically exempt from CEQA, under category number: \_\_\_\_\_

B.4 An evaluation of alternatives to burning is described below:

\_\_\_\_\_ It is a part of the environmental documentation required for the burn project pursuant to the National Environmental Policy Act or the California Environmental Quality Act and is either attached to this SMP, is on file with the Air District, or is provided for as agreed to by the Air District. (Sections B.5 – B.9 below do not have to be completed if this Section has been checked.)  
Document name & location: \_\_\_\_\_

\_\_\_\_\_ Neither a National Environmental Policy Act or the California Environmental Quality Act assessment of alternatives has been performed. Alternatives to reduce fuel load are described in section B.5 – B.9 below.

B.5 Alternatives Considered:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B.6 Alternatives Rejected and Reasons for Rejection:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B.7 Alternatives Used, and Tons of Vegetative Material Treated With Each Alternative:

\_\_\_\_\_  
\_\_\_\_\_

B.8 Particulate Reduction for Each Alternative Used (tons):

\_\_\_\_\_  
\_\_\_\_\_

B.9 Total Particulate Reductions from Alternatives Used:

\_\_\_\_\_

B.10 If this project is greater than 250 acres or smoke impacts occur, the permittee will provide a completed Post Burn Evaluation Form (see page 11) to the Air District within 30 days of project completion.

B.11 For burns greater than 250 acres, Sections A.9 and A.10 describe the site monitoring requirements.

**Post-Burn Evaluation  
For Burns For Which Smoke Impacts Occurred  
OR For Burns Greater Than 250 Acres \***

**Section A. General Information:**

Date of Burn: \_\_\_\_\_ Burn Location: \_\_\_\_\_  
Number of Acres Burned: \_\_\_\_\_ Estimated Actual PM Emissions: \_\_\_\_\_ (tons)  
Burner Name: \_\_\_\_\_  
Burner Address: \_\_\_\_\_  
Burner Phone Number: \_\_\_\_\_  
Burner Email: \_\_\_\_\_

- 1. Did the burn remain within the conditions specified in the Smoke Management Plan? \_\_\_\_\_
- 2. Were there substantial complaints or adverse smoke impacts? \_\_\_\_\_ If so, complete Section B below.
- 3. Lessons learned (Optional) (Provide attachment if desired):  
\_\_\_\_\_  
\_\_\_\_\_

**Section B. For Burns That Had Smoke Impacts, Complete The Following:**

- 1. Describe adverse smoke impacts below (add attachment if needed):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 2. Were there substantial complaints from the public? \_\_\_\_\_ If so, how many and from whom:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 3. What Air Districts were Notified (who, when, and at what phone number(s))?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Lessons learned (add attachment if needed):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 5. Attach all smoke observation and weather data collected before, during, and after the burn. See collection methods checked in sections A.9 and A.10 of the burn plan for relevant data.

\* As required by Title 17 and air district policies.

**Table 1 PM-10 EMISSIONS CALCULATIONS FOR PILES**

1. Choose the pile size most representative of the piles on your burn site.
2. Multiply the number of piles in your project with the corresponding "Tons of PM10/Pile" value to get the total PM10 tonnage.

PM10 EMISSIONS FOR SPECIFIED PILE SIZES		
PILE SIZE (in feet)	Pile Tonnage	TONS OF PM10/PILE
4' diameter x 3' height	0.056	0.0005
5' diameter x 4' height	0.12	0.001
6' diameter x 5' height	0.21	0.002
8' diameter x 6' height	0.45	0.004
10' diameter x 6' height	0.71	0.007
12' diameter x 8' height	1.3	0.01
15' diameter x 8' height	2.1	0.02
20' diameter x 10' height	4.7	0.04
25' diameter x 10' height	7.4	0.07
50' diameter x 10' height	29	0.3

Pile Tonnage calculated using a parabolic volume formula<sup>a</sup> multiplied by 30 lbs/cu.ft, multiplied by 0.2 packing ratio<sup>b</sup>

U.S. Forest Service's Conformity Handbook, Table 6 -- PM10 Emissions Factor of 19.0 pounds/ton of fuel burned - average pile and burn slash

Revised 2/13/2001

- a. Formula used for Parabolic Volume (cu.ft.) = 3.1416 x [height x (diameter)<sup>2</sup>]/8 (see Reference b. below).
- b. USDA (2/1996). Forest Service General Technical Report. Report Number: PNW-GTR-364.

**Table 2 PM 10 EMISSION CALCULATION FOR BURNING OF MULTIPLE FUEL TYPES<sup>1,2</sup>**

Section 80160 (b) of Subchapter 2 Smoke Management Guidelines for Agricultural and Prescribe Burning, Title 17, California Administrative Code states, "requires the submittal of smoke management plans for all burn projects greater than 10 acres in size or estimated to produce more than 1 ton of particulate matter". To determine what the particulate matter (PM 10) amount is of your burn project please use the equation below and review the following examples.

**Information needed for PM 10 Calculations:**

- a. VT = Vegetation type
- b. ACRES VT = Estimated number of acres for VT
- c. FL est. = Estimated fuel loading in VT TONS per ACRE
- d. EV = PM10 emission/ton of fuel

Calculating PM10 Emissions from Prescribed Burning of multiple vegetation types:

PM10 ton(s) emissions per VT = (number of acres VT) (FL tons per acre) (Emission Value (EV)) = \_\_\_\_\_ ton(s)/VT  
 PM10 ton(s) emissions per VT = (number of acres VT) (FL tons per acre) (Emission Value (EV)) = \_\_\_\_\_ ton(s)/VT  
**Sum Total is the Estimated PM 10 for the project = \_\_\_\_\_ ton(s)/project**

VEGETATION TYPE(S)	ACRES (VT) x	FL est.	x EV <sup>1</sup>	PM10 EMISSIONS (ton(s))
Basing Sage/Low Sage	( ) x	( ) x	(0.010) =	_____
Ceanothus	( ) x	( ) x	(0.010) =	_____
Chamise	( ) x	( ) x	(0.009) =	_____
Giant Sequoia	( ) x	( ) x	(0.007) =	_____
Grass/Forb	( ) x	( ) x	(0.007) =	_____
Hackberry Oak	( ) x	( ) x	(0.005) =	_____
Hardwood (Stocked)	( ) x	( ) x	(0.003) =	_____
Hardwood (Non-stocked)	( ) x	( ) x	(0.003) =	_____
Jeffrey Pine/Knobcone	( ) x	( ) x	(0.007) =	_____
Live Oak (Canyon)	( ) x	( ) x	(0.007) =	_____
Live Oak (Interior)	( ) x	( ) x	(0.007) =	_____
Lodgepole Pine	( ) x	( ) x	(0.007) =	_____
Manzanita (Productive Brush)	( ) x	( ) x	(0.009) =	_____
Mixed Chaparral/Montane	( ) x	( ) x	(0.008) =	_____
Mixed Conifer	( ) x	( ) x	(0.006) =	_____
Oak (Black)	( ) x	( ) x	(0.005) =	_____
Oak (Blue)	( ) x	( ) x	(0.003) =	_____
Oak (White)	( ) x	( ) x	(0.003) =	_____
Pinyon Pine	( ) x	( ) x	(0.007) =	_____
Ponderosa Pine, Gray Pine	( ) x	( ) x	(0.007) =	_____
Red Fir	( ) x	( ) x	(0.007) =	_____
Wet Meadow	( ) x	( ) x	(0.004) =	_____
Willow	( ) x	( ) x	(0.007) =	_____
<b>Sum Total of the Estimated PM10 for the project in tons/project =</b>				_____

1. See Table 3 on next page for values used to calculate EVs.
2. For vegetation types not listed, contact Air District for assistance with determining appropriate emission factors.

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**Table 3**  
**EMISSION VALUES (EVs) FOR BURNING OF MULTIPLE VEGETATION TYPES\***

Calculation of PM10 emission values = (% combustion) x (PM10 emission lbs/ton) x (1 ton/2000 lbs)\*

VEGETATION	%Combustion	PM Emissions (lbs/ton fuel)	Conversion Factor	PM EMISSION VALUE (PM10 tons emissions/ton fuel)
Basing Sage/Low Sage	= (1.0) x	(20.17 lbs/ton)	x (1 ton/2000 lbs)	= 0.010
Ceanothus	= (1.0) x	(20.17 lbs/ton)	x (1 ton/2000 lbs)	= 0.010
Chamise	= (0.9) x	(20.17 lbs/ton)	x (1 ton/2000 lbs)	= 0.009
Giant Sequoia	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Grass/Forb	= (1.0) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Hackberry Oak	= (0.4) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.005
Hardwood (Stocked)	= (0.4) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.003
Hardwood (Non-stocked)	= (0.4) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.003
Jeffrey Pine/Knobcone	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Live Oak (Canyon)	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Live Oak (Interior)	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Lodgepole Pine	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Manzanita (Productive Brush)	= (0.9) x	(20.17 lbs/ton)	x (1 ton/2000 lbs)	= 0.009
Mixed Chaparral/Montane	= (0.8) x	(20.17 lbs/ton)	x (1 ton/2000 lbs)	= 0.008
Mixed Conifer	= (0.6) x	(20.5 lbs/ton)	x (1 ton/2000 lbs)	= 0.006
Oak (Black)	= (0.4) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.005
Oak (Blue)	= (0.4) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.003
Oak (White)	= (0.4) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.003
Pinyon Pine	= (0.6) x	(22 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Ponderosa Pine, Gray Pine	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Red Fir	= (0.6) x	(23.1 lbs/ton)	x (1 ton/2000 lbs)	= 0.007
Wet Meadow	= (0.6) x	(15 lbs/ton)	x (1 ton/2000 lbs)	= 0.004
Willow	= (0.6) x	(25 lbs/ton)	x (1 ton/2000 lbs)	= 0.007

\* Percent combustion and PM10 emission factors for various fuel types derived from Table 8, Section 6, "Air Quality Conformity Handbook" from the USDA-Forest Service Air Resources / Fire Management Pacific Southwest Region dated November 1995.

\*\* These are the vegetation's estimated emissions values(EV) from the vegetation type as determined above to be use when the burn operator provides the vegetation's fuel loading estimate per acre.

\*\*\* For additional information on emissions factors, see EPA document AP-42: "Compilation of Air Pollutant Emission Factors. Volume 1: Stationary Point and Area Sources," Fifth Edition, AP-42, January 1995, U.S. EPA. Table 2.5-5.

APPENDIX H - SUPPLEMENTAL INFORMATION

**MONTEREY BAY**  
Unified Air Pollution Control District  
serving Monterey, San Benito, and Santa Cruz counties



24580 Silver Cloud Court • Monterey, California 93940  
831/647-9411 • FAX 831/647-8501

**PRESCRIBED BURN PERMIT EXTENSION FORM - 2007**

Please type or print clearly in ink, and submit to MBUAPCD by mail or telefax

1. 2006 Permit #: \_\_\_\_\_
2. Do you intend to carry on the same burn project(s) as you did under your permit issued in 2006, with no changes to the project description as previously submitted in your District-approved Smoke Management Plan and Application Form?  Yes  No  
If you answered yes, continue to question 3; otherwise, continue to question 4.
3. Do you wish a new permit to be issued with the same project description and the same permit conditions as for the permit issued in 2006?  Yes  No  
If you answered yes, please skip down to the signature block. Otherwise, please complete and submit the rest of this form and submit a new completed Smoke Management Plan and Application Form.
4. Project Name: \_\_\_\_\_
5. Project Location (please provide at least one of the following or attach other description):
  - a. Street address: \_\_\_\_\_
  - b. Legal description:
 

T _____	R _____
S _____	M & B _____
  - c. Lat/Long:
 

Lat \_\_\_\_ (deg.) \_\_\_\_ (min) \_\_\_\_ (sec); Long \_\_\_\_ (deg.) \_\_\_\_ (min) \_\_\_\_ (sec)
  - d. UTM coordinates: Zone: \_\_\_\_ N \_\_\_\_\_ m, E \_\_\_\_\_ m
6. For pile burning, list estimated total amount (tons) and type of vegetation to be burned:  
\_\_\_\_\_
7. For broadcast burning or standing vegetation, list the estimated total number of acres and type of vegetation to be burned:  
\_\_\_\_\_
8. List which months of the year burning might be conducted:  
\_\_\_\_\_

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

email: \_\_\_\_\_

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

**RULE 438 - OPEN OUTDOOR FIRES**

*(Adopted 4-16-2003; and Revised 9-15-2004.)*

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## PART 1 GENERAL

### 1.1 Purpose

The purpose of this Rule is to codify requirements and standards regarding the use of open outdoor fires within the boundaries of the Monterey Bay Unified Air Pollution Control District (Air District).

### 1.2 Applicability

The provisions of this Rule shall apply to all persons who set or maintain open outdoor fires set within the boundaries of the Air District.

### 1.3 Exemptions

#### 1.3.1 Exemptions from Section 3.1 (General Prohibition)

The following types of open outdoor fires are exempted from the provisions of Section 3.1 of this Rule, except as provided at Subsection 3.1.1 below.

1.3.1.1 With notification of the Air Pollution Control Officer, except in emergencies, when such fire is set or permission for such fire is given in the performance of the official duty of any public officer, and such fire in the opinion of such officer is necessary:

1.3.1.1.1 for the instruction of public employees in the methods of fighting fire; or

1.3.1.1.2 for disposing of Russian thistle (*Salsola kali*); or

1.3.1.1.3 for the setting of backfires necessary to save life or valuable property pursuant to Section 4426 of the Public Resources Code; or

1.3.1.1.4 for the abatement of fire hazards pursuant to Section 13055 of the California Health and Safety Code which cannot be abated by other means; or

1.3.1.1.5 for disease or pest prevention, where there is an immediate need for and no reasonable alternative to burning.

1.3.1.2 With notification of the Air Pollution Control Officer, except in emergencies, when such fire is set pursuant to permit on property used for industrial purposes for the purpose of instruction of employees in methods of fighting fire.

## APPENDIX H - SUPPLEMENTAL INFORMATION

- 1.3.1.3 Agricultural burning, including prescribed burning, necessary to maintain and continue an agricultural operation, set or permitted by a fire official having jurisdiction in the performance of his/her official duty including:
- 1.3.1.3.1 fires set in the course of any agricultural operation in the growing of crops, or raising of fowls, animals or bees;
  - 1.3.1.3.2 fires for the control and disposal of agricultural wastes;
  - 1.3.1.3.3 range improvement burning;
  - 1.3.1.3.4 forest management burning;
  - 1.3.1.3.5 wildland vegetation management burning.
- 1.3.1.4 Effective January 1, 2004, on burn days only, fires for disposal of dry, non-glossy paper and cardboard originating from and being burned on the premises of a single- or two-family dwelling (residential burning) if that dwelling meets all the following criteria:
- 1.3.1.4.1 the single- or two-family dwelling is not in an incorporated place; and
  - 1.3.1.4.2 the single- or two-family dwelling lies within the boundaries of a Census Zip Code within the Air District where the population density is equal to or less than 10.0 people per square mile, as calculated from the last decennial United States Census data; and
  - 1.3.1.4.3 the single- or two-family dwelling is in an area not served on a weekly basis by an organized waste disposal service; and
  - 1.3.1.4.4 the single- or two-family dwelling does not lie within the boundary of a jurisdiction which prohibits the burning of dry, non-glossy paper and cardboard as of January 4, 2002, or thereafter; and
  - 1.3.1.4.5 the census zip code population density remains equal to or below 10.0 persons per square mile if the air district chooses to renew the exemption areas every ten years pursuant to Section 93113(e), Title 17 of the California Code of Regulations. As of the date of rule adoption the following areas (listed by Census Zip Code) meet the population density criterion and may meet the weekly organized waste disposal service criterion: 93426 (Bradley, Lake Nacimiento areas); 93450 (San Ardo area); 93451 (San Miguel, Camp Roberts, Parkfield areas); 93920 (Big Sur, Gorda, Lucia areas); 93927 (Greenfield area); 93928 (Jolon, Ft. Hunter Liggett areas); 93930 (King City area); 93932 (Lockwood area); 93954 (San Lucas area); 95043 (Paicines, New Idria, Panoche, Pinnacles, San Benito areas).

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- 1.3.1.5 On burn days only, and only during the burn season, fires for disposal of natural vegetation originating from, and being burned on, the premises of a single- or two-family dwelling (backyard burning).
- 1.3.1.6 On burn days only, and only during the burn season, burning of woody wastes from developments.
- 1.3.1.7 Fires used only for the cooking of food for human beings, or ceremonial, religious or recreational fires.
- 1.3.1.8 With notification of the Air Pollution Control Officer, except in emergencies, burning for right-of-way clearing by a public entity or utility where access by chipping equipment is not available by existing means, or for levee, reservoir, and ditch maintenance.
- 1.3.1.9 Mechanized burning, e.g., trench burning, may be used for the purpose of disposing of agricultural wastes, or wood waste from trees, vines, bushes, or other wood debris free of non-wood materials as provided in Section 41812 of the California Health and Safety Code.

## 1.3.2 Exemptions from Subsection 3.2.1 (Permit Requirements)

The following types of open outdoor fires are exempted from the requirement to receive written permits from the District under subsection 3.2.1 of this Rule. This does not affect any permits that may be required by local fire agencies.

- 1.3.2.1 fires described in subsection 1.3.1.1 where the entity conducting the fire is the permitting agency;
- 1.3.2.2 fires described in subsection 1.3.1.4 (residential burning);
- 1.3.2.3 fires described in subsection 1.3.1.5 (backyard burning);
- 1.3.2.4 fires described in subsection 1.3.1.7 (recreational and cooking fires).

## 1.3.3 Exemptions from Section 3.3 (Burn Days and "No-burn" Days)

- 1.3.3.1 fires described in subsection 1.3.1.7 (recreational and cooking fires);
- 1.3.3.2 fires described in subsection 1.3.1.1.1 (fire-fighting instruction for public employees);
- 1.3.3.3 fires described in subsection 1.3.1.2 (industrial fire-fighting instruction);
- 1.3.3.4 agricultural fires set upon Air Pollution Control Officer approval where denial of such approval would threaten imminent and substantial economic loss as provided in California Health and Safety Code Section 41862.

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1.3.3.4.1 As provided in California Health and Safety Code Section 41862, the Air Pollution Control Officer may by permit authorize agricultural waste burning on "no-burn" days, if denial of such approval would threaten imminent and substantial economic loss. In authorizing such burning, the Air Pollution Control Officer shall limit the acreage which can be burned in any one day and shall only authorize burning when downwind metropolitan areas are forecasted by the California Air Resources Board to achieve the ambient air quality standards.

1.3.3.4.2 Exceptions may be made by the designated agency which issues the permit to burn, with concurrence of the Air Pollution Control Officer, if the material to be burned is diseased or insect-infested and there would be irreparable damage if the standards of Sections 3.3 were rigidly enforced.

1.3.3.5 a prescribed burn project which has been declared a test burn jointly by the California Air Resources Board and the Air District for the purpose of evaluating alternative criteria for making burn day decisions.

#### 1.3.4 Exemptions from Section 3.4 (Standards for Materials to be Burned)

Fires qualifying for exemption under subsection 1.3.3.4 may be exempted by the Air Pollution Control Officer from certain requirements of Section 3.4.

#### 1.4 Effective Date of Rule

The Rule in its present form is effective on September 15, 2004.

#### 1.5 References

The requirements of this Rule arise from the provisions of:

1.5.1 California Health and Safety Code Sections 39011 *et seq.*, 39665 *et seq.*, 41800 *et seq.*, 41850 *et seq.*; and

1.5.2 California Code of Regulations, Title 17, Subchapter 2, Sections 80100 *et. seq.* and 93113 *et seq.*

## PART 2 DEFINITIONS

### 2.1 Agricultural Burning

As defined by California Health and Safety Code Section 39011, *et seq.*

2.2 Agricultural Waste Burning

Refers to open burning in agricultural operations in the growing of crops or raising of fowl or animals, as defined in California Code of Regulations, Title 17, Subchapter 2, Article 1, Section 80100(w). This includes the burning of materials not produced wholly from such operations, but which are intimately related to the growing or harvesting of crops and which are used in the field, except as prohibited by Air District rules and regulations.

2.3 Air District

The Monterey Bay Unified Air Pollution Control District, unless otherwise noted.

2.4 Approved Ignition Device

An instrument or material that will ignite open fires without the production of black smoke by the ignition device.

2.5 Backyard Burning

Fires for disposal of natural vegetation originating from and being burned on the premises of a single- or two-family dwelling.

2.6 Brush-treated

The material to be burned has been felled, crushed or uprooted with mechanical equipment, has been desiccated with herbicides, or is dead.

2.7 Burn Barrel

A metal or other fireproof or nonflammable container used to hold combustible or flammable waste materials so that they can be ignited outdoors for the purpose of disposal.

2.8 Burn Day

Any day on which agricultural burning, including prescribed burning, is not prohibited by the California Air Resources Board, and agricultural burning, including prescribed burning, is authorized by the Air District consistent with the Smoke Management Guidelines for Agricultural and Prescribed Burning, set forth in Sections 80100 - 80330 of Title 17 of the California Code of Regulations.

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## 2.9 Burn Season

The time during the year during which certain types of burning are allowed. The burn season shall begin on December 1 and shall continue through April 30 each year.

## 2.10 Census Zip Code

A Zip Code<sup>®</sup> tabulation area, a statistical geographic entity that approximates the delivery area for a U.S. Postal Service five-digit Zip Code. Census zip codes are aggregations of census blocks that have the same predominant Zip Code associated with the mailing addresses in the U.S. Census Bureau's Master Address File. Census zip codes do not precisely depict Zip Code delivery areas, and do not include all Zip Codes used for mail delivery. For the purposes of this Rule, census zip codes are referenced to the most recent national decennial census completed by the U.S. Census Bureau.

## 2.11 Combustible

Any substance capable of burning or any substance that will readily burn.

## 2.12 Designated Agency

Any agency, other than the Air District, designated by the California Air Resources Board as having authority to issue agricultural burning permits. The U. S. Forest Service and the California Department of Forestry and Fire Protection are so designated within their respective areas of jurisdiction.

## 2.13 Flammable

Capable of catching fire easily, or combustible.

## 2.14 Forest Management Burning

The use of open outdoor 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.

## 2.15 Household Rubbish

Solid, semisolid or liquid waste from materials used or consumed in a human dwelling which can be placed inside a 30-gallon garbage can. This includes materials such as animal or vegetable putrescible wastes (garbage) and nonputrescible wastes (rubbish), including discarded materials resulting from normal residential activities.

## 2.16 Incorporated Place

The city, town, municipality or village reported to the U.S. Census Bureau as being legally in existence under California law at the time of the most recent national decennial census completed by the U.S. Census Bureau. For the purposes of calculating population density for this regulation, incorporated places include the FIPS Place Class Codes C1, C7 and C8, as defined by the U.S. Census Bureau in Technical Documentation, Summary File 1, October 2002.

## 2.17 Monterey Peninsula/Carmel Valley Smoke Sensitive Area (MP/CV SSA)

The MP/CV SSA is delineated by the following Township and Range coordinates, or Sections thereof, based on the Mount Diablo Meridian:

- a) All of T15S, R1W.
- b) T15S, R1E, Sections 19, 20, 21, and 28 thru 33.
- c) All of T16S, R1W.
- d) T16S, R1E, Sections 4 thru 9, and 13 thru 36.
- e) T16S, R2E, Sections 18, 19, and 26 thru 35.
- f) T17S, R1W, Sections 1, 2, 11, 12, 13, 14, and 24.
- g) T17S, R1E, Sections 1 thru 24.
- h) T17S, R2E, Sections 1 thru 24.

## 2.18 Natural Vegetation

All plants, including but not limited to grasses, forbs, trees shrubs, flowers, or vines that grow in the wild or under cultivation. Natural vegetation excludes vegetative materials processed, treated or preserved with chemicals for subsequent human or animal use, including but not limited to processed or treated wood and wood products or paper products.

## 2.19 "No-burn" Day

Any day on which agricultural burning, including prescribed burning, is prohibited by the California Air Resources Board or by the Air District.

## 2.20 Open Outdoor Fire

The burning of combustible material of any type outdoors in the open, not in any enclosure, where the products of combustion are not directed through a flue.

## 2.21 Organized Waste Disposal Service

Weekly curbside or roadside collection by a contracted waste hauler of residential waste in wheeled carts, standard trash cans, or garbage bags for single- or two-family dwellings, as distinguished from transfer station collection or commercial dumpster collection.

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## 2.22 Population Density

The number of people per square mile within a census zip code. It is calculated as the number of people within a census zip code divided by the area of the census zip code after subtracting the population and area of all incorporated places within the census zip code.

## 2.23 Prescribed Burning

The planned application of fire to natural vegetation to achieve any specific objective on lands selected before that application. The planned application of fire may also include natural or accidental ignition. [California Health and Safety Code Section 39011(c)] For the purposes of this Rule, prescribed burning includes but is not limited to: burning of woody wastes from developments; forest management burning; fuels management burning; range improvement burning; wildland vegetation management burning.

## 2.24 Treated Wood

Wood that has been treated with a penetrating chemical to retard rot, infestation or decay. In California, such wood is often characterized by the presence of dimples that look like staple holes covering its surface. While not all treated wood is dimpled, all wood that has dimples is treated wood.

## 2.25 Processed or treated wood and wood products

Wood that has been chemically treated to retard rot or decay, or wood that has been modified with glues, laminates, stains, finishes, paints or glosses for use in furniture or for construction purposes, including but not limited to plywood, particle board, fencing or railroad ties. For the purposes of this Rule, dimensional lumber that has been air-dried or kiln-dried, with no preservatives or finishes added, is not considered processed or treated wood.

## 2.26 Range Improvement Burning

The use of open 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.

## 2.27 Recreational Fires

Any fires for which the purpose is other than the disposal of the material being combusted, including but not limited to ceremonial, cooking food for human consumption, education, religious or warming.

## 2.28 Residential Burning

Fires for the disposal of dry, non-glossy paper and cardboard originating from and being burned on the premises of a single- or two-family dwelling.

## 2.29 Smoke-Sensitive Area (SSA)

A populated area, an airport, a traveled road or highway designated Class I for visibility standards, or any place where smoke can adversely affect the public health and welfare, as defined in the California Code of Regulations, Title 14, Section 1561.1.

## 2.30 Waste

All discarded putrescible and nonputrescible solid, semisolid, and liquid materials, including but not limited to petroleum products and petroleum wastes; construction and demolition debris; coated wire, tires, tar; tar paper; wood waste; processed or treated wood and wood products; metals; motor vehicle bodies and parts; rubber; synthetics; plastics, including plastic film, twine and pipe; fiberglass; Styrofoam; garbage; trash; refuse; rubbish; disposable diapers; ashes; glass; industrial wastes; manufactured products; equipment; instruments; utensils; appliances; furniture; cloth; rags; paper or paper products; cardboard; boxes; crates; excelsior; offal; swill; carcass of a dead animal; manure; human or animal parts or wastes, including blood; fecal- and food-contaminated material; felled trees; tree stumps; brush; plant cuttings and prunings; branches; garden waste; weeds; grass clippings, pine needles, leaves and other natural vegetation waste.

## 2.31 Wildland Vegetation Management Burning

The use of prescribed burning conducted by a public agency, or through a cooperative agreement 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.

## 2.32 Woody Wastes from Development

Woody waste from trees, vines or bushes or natural vegetation grown on the property being developed for commercial or residential purposes.

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## PART 3 GENERAL REQUIREMENTS AND STANDARDS FOR OPEN OUTDOOR FIRES

## 3.1 General Prohibition

Except as otherwise provided in this Rule, no person shall use open outdoor fires within the boundaries of the Monterey Bay Unified Air Pollution Control District for the purpose of disposal or burning of petroleum wastes, demolition or construction debris, tires, tar, trees, wood waste, processed or treated wood and wood products, or other combustible or flammable solid, semisolid or liquid waste; or for metal salvage or burning of motor vehicle bodies.

- 3.1.1 Notwithstanding the exemptions at Subsection 1.3.1 *et seq.*, no person shall use open outdoor fires within the boundaries of the Monterey Bay Unified Air Pollution Control District for the purpose of disposal or burning of treated wood under any circumstances. However, the District may exempt specific lots of wood from this prohibition upon the request on any person who can prove to the District that the wood sought to be exempt, while chemically treated, does not contain arsenic, chromium or other chemical compound that substantially adds to the toxicity of the emissions from burning.

## 3.2 General Permit Requirements

- 3.2.1 No person shall set, or permit to be set, any open outdoor fire including agricultural fires without first obtaining a written permit from the Air District, except as provided at subsection 1.3.2 of this Rule, and as required from the local fire protection agency with jurisdiction.
- 3.2.2 In issuing a permit to burn wastes, the Air Pollution Control Officer or other permitting authority may limit the amount of such material that can be burned in any one day and the hours of the day during which material may be burned.

## 3.3 Burn Days and "No-Burn" Days

No person shall set, or permit to be set, any open outdoor fire on any day designated by the California Air Resources Board as a "no-burn" day, except as provided at subsection 1.3.3 of this Rule. Fires allowed pursuant to this Rule shall only be set during burn days as designated by the California Air Resources Board or by the Air District.

## 3.4 General Standards for Materials to be Burned

All materials to be burned shall conform to the following requirements to ensure rapid and complete combustion to minimize smoke generation:

- 3.4.1 Materials to be burned shall be dry and reasonably free of visible surface moisture prior to burning.

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- 3.4.2 Materials to be burned shall be free from combustible impurities such as tires, tar paper, household rubbish, plastics, demolition or construction debris, and other material not grown at the site, unless otherwise provided in this Rule, and shall be reasonably free of dirt and soil.
- 3.4.3 Tree stumps more than six inches in diameter shall have been dried for at least 180 days prior to burning.
- 3.4.4 Trees, branches and prunings more than two inches but equal to or less than six inches in diameter shall have been dried for at least 60 days prior to burning.
- 3.4.5 Trees, branches and prunings equal to or less than two inches in diameter and plant trimmings shall have been dried for at least 30 days prior to burning.
- 3.4.6 Wastes from field crops that are cut in a green condition shall have been dried for at least 10 days prior to burning.
- 3.4.7 Material to be burned shall be arranged to provide adequate aeration to allow the material to burn with a minimum of smoke.
- 3.4.8 The use of burn barrels to burn materials is prohibited, unless authorized by the local fire agency with jurisdiction. Burn barrels shall only be used to burn materials consistent with the provisions of Subsection 1.3.1.4 (residential burning).
- 3.4.9 Material containing poison oak shall not be burned where in the opinion of the Air Pollution Control Officer the smoke from the burning operations could adversely affect adjacent or nearby residences.
- 3.4.10 Only approved ignition devices shall be used for ignition.
- 3.4.11 Burning shall not commence when the wind direction would blow smoke toward a Smoke Sensitive Area or populated area which would be adversely affected by the smoke.

3.5 Prohibition of Nuisances

Notwithstanding any other provision of this Rule, no fire shall constitute a nuisance as defined in District Rule 402 (Nuisances).

PART 4 ADDITIONAL REQUIREMENTS FOR BURNING OF AGRICULTURAL WASTES

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The purpose of this Part is to codify standards and requirements for burning of agricultural wastes within the Air District. The provisions of this Part shall apply to all persons who set or maintain fires used for burning agricultural wastes within the Air District.

#### 4.1 Burning Hours

No field crop burning shall commence before 10:00 a.m. or after 5:00 p.m. of any day, unless local conditions indicate that other hours are appropriate. (California Health and Safety Code Section 80150(a)(2)).

#### 4.2 Fertilizer and Pesticide Sacks or Containers

Empty fertilizer and pesticide sacks or containers may be burned on burn days only in the field where the sacks or containers are emptied.

#### 4.3 Garlic Tops

The burning of garlic tops in harvesting operations is prohibited.

### PART 5 ADDITIONAL REQUIREMENTS FOR PRESCRIBED BURNING

The purpose of this Part is to codify standards and requirements for prescribed burning within the Air District. The provisions of this Part shall apply to all persons who set or maintain fires used for prescribed burning within the Air District.

#### 5.1 Requirements for All Prescribed Burning

##### 5.1.1 Project Registration

Prescribed burn projects must be registered with the Air District annually or seasonally. Information to be submitted includes but is not limited to: project name; project location; approximate total number of tons (for piled material) or acres (for standing material) of vegetation; type of vegetation; expected time of year (which months) the burning project may be conducted; applicant contact information.

##### 5.1.2 Permit Required

No person shall conduct or permit to be conducted any prescribed burning within the boundaries of the Air District without first having obtained a permit from the Air District and the California Department of Forestry and Fire Protection (CDF) or other designated agency with jurisdiction, as required by such agencies.

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## 5.1.3 Smoke Management Plan and Permit Application Form

Before a permit may be issued by the Air District for prescribed burning, a completed Smoke Management Plan and Permit Application form consistent with the requirements of Title 17 to mitigate and monitor smoke impacts, and describing how the burn is to be carried out, shall be submitted by the owner, or his/her agent, of the land on which the burn is proposed, to the Air District and be approved by the Air District. This information shall include a list of any "Smoke Sensitive Areas" (SSAs) within 10 miles of the burn, with compass directions to the nearest of eight prime compass points; and contingency measures to be followed in case of significant downwind smoke impacts from the project.

## 5.1.4 Daily Burn Authorization

Prescribed burns may only be conducted after receiving authorization from the Air District. The burner must receive authorization from the Air District any time within the 24 hours before burning by calling (831) 647-9411 during the Air District's normal business hours (Mondays through Fridays; 8:00 A.M. to 5:00 P.M.).

5.1.4.1 The following types of burns do not require daily burn authorization from the Air District: agricultural waste burns; backyard burns; any household rubbish fires; residential burns; and wildland vegetation management pile burns, when the daily amount of fuel to be burned is no more than 10 tons.

5.1.4.2 If the burn will be conducted on weekends or holidays, or if the burner cannot otherwise comply with the 24-hour requirement, the burner must contact the Air District before the burn during the Air District's normal business hours to receive Provisional Authorization. Provisional Authorization will allow the burn to be conducted on a burner-selected future date, if:

5.1.4.2.1 that future date is declared a burn day by the California Air Resources Board or by the Air District; and

5.1.4.2.2 the requirements of the Air District-approved project Smoke Management Plan are met on the day of the burn.

## 5.1.5 Restrictions on Poor Air Quality Days

No prescribed burns may be conducted on days when air quality conditions (including high ozone concentrations) have been predicted to result in smoke impacts or to be unacceptable for burning for the region.

## 5.1.6 Public Notification

Direct public notification of sensitive downwind receptors shall be required for prescribed burn projects with potentially significant air quality impacts.

## 5.1.7 Daily Emissions Allocation

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The total emissions from all prescribed burn projects on each day in the air basin shall remain within the District's adopted Air Quality Maintenance Plan VOC and NO<sub>x</sub> emission inventories during the ozone season (May through October).

- 5.1.7.1 The Air Pollution Control Officer (APCO) may modify the above restriction on total emissions if limiting the proposed burn would: require multiple burns that would result in prolonged smoldering and expose sensitive receptors to air pollutants over multiple days; or, substantially increase costs; or, affect public services such as roadway access; or, be in an area where several smaller burns would be difficult to conduct and/or would require firebreaks that would increase erosion or landslide potential or disturb cultural resources or endangered plants or species.

5.1.8 Use of Approved Ignition Devices

The material shall be ignited only by devices and methods approved by the California Department of Forestry and Fire Protection and ignition shall be rapid as practicable within applicable fire control restrictions.

5.1.9 Certification by Department of Fish and Wildlife

Burning conducted primarily for improvement of land for wildlife and game habitats shall require the permittee to file with the Air District a statement obtained from the Department of Fish and Game certifying the burning is desirable and proper for the improvement of land for wildlife and game habitat.

5.1.10 Reporting of Actual Materials Burned

Within 30 days of completion of a prescribed burn project, the burner shall report to the Air District the date and amount of fuel actually consumed for each day of burning conducted. The reporting period may be reviewed by the District and may be reestablished, if deemed appropriate, based on the availability of a statewide electronic reporting system for prescribed burn projects.

5.2 Additional Requirements for the Burning of Woody Wastes from Developments

In addition to the requirements of Section 5.1 of this Rule, the following requirements apply to the burning of woody wastes from developments:

- 5.2.1 The purpose of this Section is to provide requirements for the disposal by burning of woody wastes from trees, vines, or bushes or natural vegetation grown on property being developed for commercial or residential purposes.
- 5.2.2 The provisions of this Section shall apply to all persons who set or maintain fires within the Air District for the burning of woody wastes on land being developed for commercial or residential purposes, provided that the wastes resulted from trees, vines, or bushes or other natural vegetation grown on the land being developed.

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- 5.2.3 No person shall conduct or allow the conduct of any land development burning within the boundaries of the Air District without first obtaining a written permit from the Air District.
- 5.2.4 After consideration of the amount of woody waste to be burned, the season of the year, the ambient air quality and the proximity of the waste to developed areas, the Air Pollution Control Officer may grant a permit to burn woody wastes from developments.
- 5.2.5 Where economically and technically feasible, brush shall be treated by chemical or mechanical means at least six months prior to a proposed burn, to kill or uproot the brush to insure rapid combustion.
- 5.2.6 During Burn Season

All fires allowed under this Section shall be conducted only during the burn season as defined in Section 2.9 of this Rule.

### 5.3 Additional Requirements for Forest Management and Range Improvement Burning

In addition to the requirements of Section 5.1 of this Rule, the following requirements apply to forest management and range improvement burning:

- 5.3.1 All materials to be burned during forest management and range improvement burning when permitted shall conform to the following requirements to ensure rapid burning and ignition and to minimize smoke generation:
  - 5.3.1.1 Where economically and technically feasible, brush shall be treated by chemical or mechanical means at least six months prior to a proposed burn, to kill or uproot the brush to insure rapid combustion.
  - 5.3.1.2 Unwanted trees over six inches in diameter expected to burn or those not effectively treated at the time of the brush treatment shall be felled at least three months prior to the burn, but a longer time may be required where conditions warrant.

### 5.4 Additional Requirements for Wildland Vegetation Management Burning

In addition to the requirements of Section 5.1 of this Rule, the following requirements apply to wildland vegetation management burning:

- 5.4.1 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:
  - 5.4.1.1 After consultation with the Air District, the Air District decides, for smoke management purposes, that the burn can be managed for resource benefit; or

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- 5.4.1.2 For periods of less than 24 hours, a reasonable effort has been made to contact the Air District, or if the Air District is not available, the California Air Resources Board.
- 5.4.1.3 After 24 hours, the Air District has been contacted, or if the Air District is not available, the California Air Resources Board has been contacted and concurs that the burn can be managed for resource benefit.
- 5.4.2 A “no-go” decision does not mean that the fire must be extinguished, but that the fire cannot be considered as a prescribed fire.
- 5.4.3 For naturally-ignited wildland fires managed for resource benefits that are expected to exceed 10 acres in size, a smoke management plan must be submitted to the Air District within 72 hours of the start of the fire.

## PART 6 ADDITIONAL REQUIREMENTS FOR FIRES WITHIN THE MONTEREY PENINSULA/CARMEL VALLEY SMOKE SENSITIVE AREA

Notwithstanding other provisions of this Rule, open burning provided for by subsections 1.3.1.5 (backyard burning), 1.3.1.8 (right-of-way burning) and 1.3.1.6 (burning of woody wastes from developments) of this Rule is prohibited within the Monterey Peninsula/ Carmel Valley Smoke Sensitive Area (MP/CV SSA) as defined in Section 2.17 unless all the following conditions are met:

- 6.1 Such burning is permitted only in those local fire protection agency jurisdictions set forth in Section 6.4 which have adopted enforceable local fire protection agency rules that limit the total number of burns, including agricultural burns, to no more than 25 such burns per burn day. Local fire protection agency rules shall be deemed to comply with this Section only if such rules provide that the local fire protection agency shall maintain a log of each permittee authorized by said agency to burn on any given burn day, and shall assign either a daily authorization number or a local agency burn permit number. Such rules shall further provide that said log of 25 or fewer authorized permittees per burn day shall be made available to the Air District upon request, and shall be maintained for a period not less than 90 calendar days from the date of each burn day.
- 6.2 Burning delineated in this Section and agricultural burning is permitted only after a burn permit has been obtained from the proper local fire protection agency. The burn permit is valid:
  - 6.2.1 only on burn days as determined by the California Air Resources Board and the Air District; and,
  - 6.2.2 upon receipt of a daily authorization number issued by the local fire protection agency having jurisdiction.

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6.3 Upon written approval of the Air Pollution Control Officer, any local fire protection agency subject to the provisions of Section 6.2 may delegate to the Air Pollution Control Officer its responsibility and authority to issue daily authorization numbers which therefore validate on a daily basis burn permits issued pursuant to Section 6.2. Should such delegation occur, the issuance or denial of a daily authorization number by the Air Pollution Control Officer shall respectively validate or invalidate the subject burn permit for that respective day as if such action had occurred by the local fire protection agency having jurisdiction in accordance with other provisions of this Rule.

6.4 In full recognition of the fact that each local fire protection agency has the prerogative and right to constrain or prohibit open burning altogether, the following agencies are authorized to issue open burning permits on behalf of the Air District:

- Carmel-by-the-Sea FD
- Carmel Highlands FPD
- Carmel Valley FPD
- Cypress FPD
- Mid-Carmel Valley FPD
- Monterey FD
- Pacific Grove FD
- Pebble Beach CSD
- California Department of Forestry and Fire Protection (CDF).

6.5 The defined perimeter of the MP/CV SSA, and the limit on number of burns each day may be reviewed by the Air District Board and may be reestablished, if deemed appropriate, based on recent meteorological and open burning related data.

\* \* \* \* \*



# Vegetation

Pinnacles National Monument  
National Park Service  
Department of the Interior

