

J. PROJECT SCALE ANALYSIS BURN PLANNING

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VTP EIR Burn Plan

1.1 Project Identification:

- A. DATE:
- B. PROJECT NUMBER:
- C. PROJECT NAME:
- D. REGION:
UNIT:
COUNTY:
BATTALION:
- E. PROJECT SPECIFICATIONS prepared by:
- F. PROJECT ENVIRONMENTAL CHECKLIST prepared by:
- G. LIST OF PARTICIPATING AGENCIES SIGNATORY TO THE "MULTI AGENCY AGREEMENT FOR COOPERATIVE USE OF PRESCRIBED FIRE":
- H. LIST OF PARTICIPATING AGENCIES NOT SIGNATORY TO "MULTI AGENCY AGREEMENT FOR COOPERATIVE USE OF PRESCRIBED FIRE":
- I. LIST OF PARTICIPATING PROPERTY OWNERS OR CONTROLLERS:

1.2 Burn Area Description:

- A. PROJECT LOCATION:
- B. PARCEL ZONING AND LAND USE DESCRIPTION:
- C. PROJECT AREA TOTAL:
- D. PROJECT AREA NET:

1.3 Environmental Setting and Impacts:

- A. NARRATIVE DESCRIPTION OF THE PROPOSED PROJECT, OBJECTIVES AND TREATMENT METHODS:
- B. PROJECT TOPOGRAPHY:
- C. SOILS DESCRIPTION AND SENSITIVITY TO PROJECT ACTIVITIES:
- D. VEGETATION COMMUNITY AND DOMINANT SPECIES:
- E. WILDLIFE/FISHERIES HABITAT AND SENSITIVITY TO PROJECT ACTIVITIES:
- F. CULTURAL RESOURCES AND SENSITIVITY TO PROJECT ACTIVITIES:
- G. SMOKE AND COMMUNITY SENSITIVITY TO PROJECT:
- H. IGNITION MAP/ CONTAINMENT MAP

1.4 Burn Prescription:

A. SCHEDULE:

B. FUEL DESCRIPTION:

- 1) FUEL MODEL(s):
- 2) VEGETATION LESS THAN 24" TALL:
- 3) VEGETATION GREATER THAN 24 INCHES TALL:
- 4) FUEL LOADING:
- 5) FUEL ARRANGEMENT:
- 6) FUEL CONTINUITY:
- 7) SURFACE FUEL DEPTH:
- 8) DUFF DEPTH:

C. FUEL CONSUMPTION PLANNED:

D. FUEL TREATMENT PLANNED:

E. NARRATIVE:

F. WEATHER AND FUEL MOISTURE:

- 1) WEATHER DATA COLLECTION:
 - a. LOCATION(S) /METHOD(S) OF DATA COLLECTION:
 - b. DATA TO BE COLLECTED:
 - c. SAMPLING PERIOD:
 - d. FORECASTS:
 - e. FORECASTING ENTITY:
 - f. SPECIFICATIONS, WARNINGS:
 - g. PROBABILITY OF ADVERSE WEATHER:
 - h. ADDITIONAL COMMENTS:
- 2) PRESCRIPTION FOR FUEL MOISTURE, WEATHER, AND SOILS

Provide allowable or acceptable range of values for the following fuel and weather characteristics.

- a. RELATIVE HUMIDITY (%):

- b. AIR TEMPERATURE (DRY BULB °F):
- c. WIND DIRECTION:
- d. WIND SPEED (mph):
- e. FUEL MOISTURE:
- f. SOIL MOISTURE:
- g. DUFF MOISTURE:

1.5 Fire Behavior Predictions:

- A. Provide outputs generated by fire behavior calculations (i.e. BEHAVE) using the determined environmental parameters as variables.
 - 1) FIRE LINE INTENSITY (BTUs/foot/second): Target, Maximum.
 - 2) RATE OF SPREAD (chains/hour): Head and Backing.
 - 3) FLAME LENGTH (feet): Target and Maximum.
 - 4) SCORCH HEIGHT: (feet): Target, Maximum.
 - 5) PROBABILITY OF IGNITION: Target, Acceptable.
 - 6) BURNOUT TIME (Hours): Target, Acceptable.
 - 7) OTHER:
 - 8) FIRE BEHAVIOR NARRATIVE:

Specific Resource Review questions -

Water Resources:

Will the removal of vegetative cover result in increased water runoff on slopes and subsequent adverse effects on water quality or other resources? _____

MITIGATION(s):

___ Geologic hazard areas will not be burned.

OTHER CONDITIONS:

___ Physical conditions are such that there will be no increased runoff resulting from the project.

___ There is an existing buffer strip of vegetation between the project site and any water course that will prevent degradation of water quality or watershed values.

- ___ There are no beneficial uses in the vicinity of this project that will be adversely affected by increased runoff.
- ___ Additional reasons:

If burning in a perennial watercourse, lake, or reservoir, will the removal of vegetative cover or other phases of the proposed project significantly increase turbidity or deposition of sediment? _____

MITIGATION(S):

A CDFW biologist has been asked to review the project and provided the following comments:

- ___ CDFW does not anticipate adverse effects to waterbodies as a result of this project as proposed.
- ___ Recommendations have been incorporated in the project design to prevent adverse impacts to water bodies present in the project area (See below under "Other Conditions").
- ___ Large areas will not be burned within a short time period, nor will the project be conducted in geologic hazard areas, sandy or shallow soils. High intensity fires will be avoided.
- ___ Areas where high intensity fire destroys seed stock or adversely alters soil structure will be seeded afterward with herbaceous species.
- ___ Project design was modified to reduce impact on domestic and instream water resources.
- ___ Riparian vegetation will not be disturbed.

OTHER CONDITIONS:

- ___ There is no perennial watercourse, lake, or reservoir in the vicinity of the project.
- ___ There is an existing buffer strip of vegetation between the project site and any water course that will prevent degradation of water quality or watershed values.
- ___ CDFW recommendations:
- ___ Additional reasons:

If removal of watercourse shading is planned, will this project cause a significant increase in water temperature that is detrimental to fish? _____

MITIGATION(S):

- ___ Riparian vegetation will be not be disturbed.

___ Any vegetation affecting maintenance of stream shade and temperature will not be disturbed.

OTHER CONDITIONS:

___ There are no watercourses in the vicinity of the project.
___ Additional reasons:

If using heavy equipment on unstable soils, will this project cause land- slides or slope failure? _____

MITIGATION(S):

___ Heavy equipment will not be allowed on current or potential slide areas.

OTHER CONDITIONS:

___ There are no known unstable soils in the project area.
___ Additional reasons:

Will this project cause slash or woody debris to be deposited in a watercourse, lake or reservoir? _____

MITIGATION(S):

___ All watercourses and areas below lake transition zone will be kept free of slash and debris. Accidental deposits will be cleaned up. (Needed erosion control structures, such as gully plugs or erosion control devices may be installed to prevent accelerated erosion as needed.)

OTHER CONDITIONS:

___ There are no watercourses, lakes or reservoirs in the project area.
___ There is an existing buffer strip of vegetation between the project site and any water course that will prevent degradation of water quality or watershed values.
___ Additional reasons:

Are there any other circumstances or site conditions present in this project as designed that have not been mitigated to avoid adverse impacts on water quality? _____

MITIGATION:

- ___ Article 6 of the Program Regulations (Resource Protection Guidelines) will be followed. The site-specific measures to be applied under Article 6 are listed below under "Other Conditions".

OTHER CONDITIONS:

- ___ Additional reasons:

Soils and Water Quality:

If this project will use a heavy disk, root or brush rake or dozer blade, and/or if this project incorporates low-blade crushing, anchor chaining, or ball-and-chaining of vegetation such as for fuel treatment or control line construction; will this project result in excessive soil disturbance, soil compaction, accelerated erosion or soil deposition in watercourses?

MITIGATION(S):

- ___ Heavy equipment use will be minimized on slopes over 35%.
- ___ No heavy equipment, soil, or brush berms will be allowed within 50 feet of a watercourse or lake transition zone.
- ___ Slopes that present geologic or safety hazards have been identified and will be avoided.
- ___ These methods of pre-treatment will be used on no more of the project area than is necessary for safety, as determined by the CAL FIRE Regional Chief.
- ___ Equipment will not be allowed on soils when the moisture content is at/or above field capacity.
- ___ Brush removed from slopes will be windrowed along the contour and disposed of by burning or by other appropriate methods that leave effective berms of residual soil to impede surface water flow.
- ___ Buffer strips of vegetation will be left between treated areas and watercourses.
- ___ Vegetation in natural drainages will be left to trap sediment.
- ___ These methods will not be used in mid-late spring when the soil erosion potential from spring rains is high and corresponds with ineffectual treatment of young brush stands with a high moisture content.
- ___ Area will be drill-seeded with herbaceous species on contour in the Fall to reduce surface flow.

OTHER CONDITIONS:

- ___ Heavy equipment will not be used.
- ___ There is no watercourse, lake, or reservoir in the vicinity of the project.
- ___ Additional reasons:

SOIL STABILITY:

Will the project disturb any geologic hazard areas within or adjacent to the project?

MITIGATION:

___ Geologic hazard areas are marked and will be avoided.

OTHER CONDITIONS:

___ No geologic hazard areas were identified within the project area.

___ Additional reasons:

Vegetation:

If burning large areas of mature chaparral vegetation during winter or spring: will this project cause low regeneration and depletion of available wildlife forage? _____

MITIGATION(S):

___ No more of the project area will be burned than is necessary for fire safety, as determined by the CAL FIRE Regional Chief.

___ Areas of the project have been reserved for summer or fall burning to allow propagation of herbaceous plants.

___ The burn is located on ridge tops and/or canyon bottoms to minimize impacts to wildlife habitat.

___ The project will be burned in a pattern to create and maintain a mosaic of old and young growth with diverse habitat structure.

OTHER CONDITIONS:

___ Large areas of mature chaparral will not be burned in winter or spring.

___ Additional reasons:

If burning dense stands of chaparral occurring upon woodland soils in winter or spring: will this project which could cause significant adverse effects on plant regeneration and loss of wildlife habitat and oak woodlands? _____

MITIGATION:

___ No more of the project area will be burned than is necessary for fire safety, as determined by the CAL FIRE Regional Chief.

___ Landowner to re-seed if regeneration not apparent after burn, or if burn vegetation loss is greater than desired.

- ___ Trees will be protected through use of a cool prescription and/or clear around trees for protection.

OTHER CONDITIONS:

- ___ Dense stands of chaparral will not be burned in winter or spring.
- ___ Additional reasons:

Will burning in summer or fall cause a significant loss of wildlife habitat and/or damage to oak woodlands? _____

MITIGATION:

- ___ Area will be re-seeded if regeneration not apparent after burn, or if burn vegetation loss is greater than desired.
- ___ Trees will be protected through use of a cool prescription and/or clearing around trees for protection.
- ___ Burn will maintain islands and strips of chaparral to provide thermal protection and escape cover for wildlife.

OTHER CONDITIONS:

- ___ Dense stands of chaparral will not be burned in summer or fall.
- ___ The project will incorporate the Department of Fish and Game's recommendation to maintain forty percent cover for wildlife habitat.
- ___ Additional reasons:

If burning in areas with oak or conifer overstory: will this project result in undesired adverse effects on conifer and/or oak tree survival? _____

MITIGATION:

- ___ Conifer and/or oak trees will be protected through use of cooler prescriptions and/or chaparral understory will be cleared away from trunks.

OTHER CONDITIONS:

- ___ This project does not have a forest overstory.
- ___ Project will intentionally eliminate existing conifer/oak vegetation as part of a plan to prepare the site for reforestation.
- ___ Additional reasons:

Habitat:

Will the proposed project result in a reduction in oak trees that could adversely affect wildlife habitat, species diversity, or a cumulative lack of oak regeneration in the area?

MITIGATION:

The project has been reviewed by a biologist from DFG who has determined:

- ___ There are no significant undesired effects to oaks or oak-related habitat in the project as proposed.
- ___ The project incorporates wildlife/hardwood retention guidelines that maintains habitat diversity (see Other Conditions").
- ___ Landowner will protect oak seedlings from livestock grazing while regeneration is occurring.
- ___ Landowner will plant oaks when natural regeneration fails.
- ___ Landowner will seed with large seed-producing forbs to replace lost forage seed mast.
- ___ Fire will be low-intensity and is not expected to harm trees.

OTHER CONDITIONS:

- ___ Oaks are not present in the project area.
- ___ DFG recommendations:
- ___ Additional reasons:

Wildlife:

Will this project result in significant detrimental effects on wildlife habitat by creating a large homogeneous ecotone with no mosaic or strips of unburned vegetation? _____

MITIGATION(S):

- ___ The project will be burned in a pattern to create and maintain a mosaic of old and young growth with diverse habitat structure.
- ___ The area will be seeded with a variety of forbs to enhance the ground cover and available wildlife forage (include in Cost-Share description).
- ___ Spring burning will be avoided because plant species diversity might be adversely affected in such a large burn.
- ___ Adjacent areas will be burned only after project site recovers sufficiently to create a pattern of young and old growth with diverse habitat structure.

OTHER CONDITIONS:

- ___ Additional reasons:

Will any rare or endangered plant or animal species be adversely affected by this project?

MITIGATION:

The project has been reviewed by biologists from the Department of Fish and Wildlife and/or federal agency and...

___ There are no known rare or endangered plant or animal species in or adjacent to the project area.

___ Recommendations have been incorporated into the project design to avoid adverse environmental impacts to wildlife (see "Other Conditions").

OTHER CONDITIONS:

___ CDFW/USFWS recommendations:

___ Additional reasons:

Could burning this project as planned cause significant negative impacts to known and occupied habitats of rare, endangered, threatened, or sensitive species? _____

MITIGATION:

Project has been reviewed by biologists from the Department of Fish and Wildlife, U.S. Fish and Wildlife Service, or other federal agency...

___ The project area and vicinity is not known or suspected of being used by species of plants or animals so classified.

___ Recommendations have been incorporated into the project design to avoid adverse environmental impacts to known or potential wildlife habitat (see "Other Conditions").

OTHER CONDITIONS:

___ CDFW/USFWS recommendations:

___ Additional reasons:

Will the proposed project disrupt critical deer migration corridors or critical habitats of any game species? _____

MITIGATION:

A biologist from CDFW has reviewed this project and has concluded that:

- ___ This project does not contain known deer migration corridors or other critical habitats of any game species.
- ___ No adverse impacts to critical habitat are anticipated from burning this project as proposed.
- ___ Recommendations have been incorporated into the project design to avoid damage to habitat (see "Other Conditions")
- ___ Twenty percent of the area will be replanted with grasses and forbs to restore wildlife habitat.

OTHER CONDITIONS:

- ___ CDFW recommendations:
- ___ Additional reasons:

If burning in or adjacent to areas classified as wetlands or riparian zones: will this project result in undesired changes in vegetation character or other adverse impacts to riparian plants, fish, or wildlife habitat? _____

MITIGATION:

DFG biologists have inspected the area and concluded that:

- ___ The proposed burn will not cause undesired changes in riparian plants, fish, or wildlife habitat.
- ___ That by incorporating their recommendations the burn will not adversely affect fish, wildlife, or the vegetation character of riparian or wetland areas (see recommendations under "Other Conditions".)

OTHER CONDITIONS:

- ___ The project is not in or adjacent to any known wetland or riparian zone.
- ___ DFG recommendations:
- ___ Additional reasons:

Air quality:

Will smoke from the project create a significant hazard to human health or safety? _____

MITIGATION:

- ___ Through coordination with the local Air Pollution Control District (APCD), the project has been rated for air pollution potential, and an appropriate Smoke Management Plan has been prepared that will minimize the air quality impacts of this project (See attached Smoke Management Plan).

OTHER CONDITIONS:

___ Additional reasons:

Archaeology:

Will archaeological, cultural, or historical resources be adversely affected by this project?

MITIGATION:

The attached record search by the Regional Officer of the California Archaeological Inventory recommends:

- ___ a. No site survey was warranted for this project as proposed.
- ___ b. A site survey was conducted and appropriate measures have been incorporated into the project design to avoid adverse impacts to located sites (see "Other Conditions").
- ___ Soil will not be disturbed in areas where this would harm the resources.
- ___ Specific sites will be left unburned if burning would tend to degrade the resources.
- ___ Crews will be carefully supervised to avoid unauthorized collecting or other disturbance of the site.
- ___ Areas have been marked to be avoided by machinery, handcrews or fire.

OTHER CONDITIONS:

- ___ Archaeology mitigation measures:
- ___ Additional reasons:

Survey Markers:

Are land survey markers vulnerable to damage or destruction during vegetation treatment or burning within the proposed project area? _____

MITIGATION:

- ___ Survey markers are protected from project impacts by excluding heavy equipment and fire from the vicinity of known markers.

OTHER CONDITIONS:

- ___ There are no known land survey markers within the project area that would be affected by project activities.
- ___ Additional reasons:

Visual:

If any part of the proposed project be located upon highly visible slopes; is this project of such a size and design as to cause significant visual distraction and/or loss of aesthetic value? (Include visual impact of pre-treatment effects, such as creation of mechanical or hand-constructed firelines.) _____

MITIGATION:

- ___ Straight line boundaries and other strong linear configurations will be avoided as much as feasible.
- ___ Area will not be 100% cleared through burning operations; unburned areas will be left to add textural variety.
- ___ Natural or existing features will be followed, such as streamcourses, vegetation type lines, ridgetops, etc.
- ___ Fireline edges on the outside-of-the-burn side will be feathered into the natural landscape, with brush cuttings used to disguise the lines and provide soil cover after the burn.

OTHER CONDITIONS:

- ___ Project will not be burned upon highly visible slopes and/or visual impact expected to be minimal.
- ___ Additional reasons:

SMOKE MANAGEMENT PLAN

In accordance with the a Air District’s Smoke Management Program, this Smoke Management Plan (SMP) or similarly required plan from a specific Air District is to be completed by the applicant and submitted to the appropriate Air District Official as part of the overall burn plan review process. Once approved by the Air District, the SMP serves as a conditional permit to burn, when used in conjunction with a standard permit.

The information required herein is considered the minimum needed to effectively evaluate the effectiveness of smoke management efforts. Individual Air Districts may require supplemental information if the proposed prescribed burn project is:

- 1) Extremely large,
- 2) Likely to adversely impact smoke sensitive areas, such as Class I airsheds,
- 3) Likely to have multi-jurisdictional smoke impacts, or
- 4) Contains other site-specific complexities, which would require the need for further information.

Information may need to be extracted from the project burn plan on an infrequent basis in order to supplement the SMP. Air District review of individual burn plans would be for informational purposes only. The Air District assumes no approval authority or liability for individual, project-specific burn plans. The Permittee is responsible for ensuring firefighter and public safety and all other plan elements, which pertain to matters not related to smoke management.

The terms used in this SMP have the same meaning as those defined in the Air District’s open burning regulations or the California Code of Regulations, Title 17, Section 80101. Where differences occur, the Air District’s definitions apply.

I. GENERAL INFORMATION

A. 1. PERMITTEE NAME AND ORGANIZATION: _____

2. FIRE MANAGER/BURN BOSS NAME: _____ PHONE/DISPATCH: _____

B. PROJECT NAME: _____

C. PERMIT NUMBER: _____ D. TOTAL ACRES: _____

E. LEGAL LOCATION: TOWNSHIP _____ RANGE _____ SECTION(S) _____

UNIT NAME	LEGAL DESCRIPTION

F. AIR QUALITY MANAGEMENT DISTRICT: _____

G. Indicate the category which best describes this prescribed burn project:

1. **Forest Management Burning:** Use of open outdoor fires as a part of forest management practice to remove forest debris or for forest management practices which include timber operations, silvicultural practices or forest protection.

- 2. **Range Improvement Burning:** Use of open, outdoor fires to remove vegetation for wildlife, game or livestock habitat or for the initial establishment of an agricultural practice on previously uncultivated land.
- 3. **Wildland Vegetation Management Burning:** 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 predominately covered by chaparral (as defined in The California Code of Regulations Title 14, Section 1561.1), trees, grass, or standing brush.
- 4. **Wildfire Managed for Resource Benefit:** Use of naturally occurring fire (i.e., lightning) exceeding ten acres in size to achieve resource management objectives. **NOTE:** When a natural ignition fire 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, after consultation with the Air District, the Air District decides, for smoke management purposes, that the fire 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 a prescribed fire. A SMP must be submitted within 72 hours of project declaration for those fires that are expected to exceed 10 acres in size.

II. PROJECT INFORMATION

A. Acres by type of Burn

1) Machine Pile Burn _____ 2) Hand Pile Burn _____ 3) Landing Pile Burn _____
 4) Broadcast Burn _____ 5) Understory Burn _____

B. PREDOMINANT VEGETATION TYPE (check all that apply):

1) Brush _____ 2) Grass _____ 3) Timber Litter _____ 4) Timber Slash _____

C. DESIRED SEASON OF PROJECT: _____ ACCEPTABLE ALTERNATIVE: _____

D. ARB 48/72-HOUR CONTROLLED BURN NOTICE REQUIRED? YES NO

E. SPOT WEATHER FORECAST REQUIRED? YES NO

F. PROJECT/UNIT ELEVATION (feet): Top: 800 Bottom: 700

G. DURATION OF BURN: 1) Ignition _____ Days 2) Burndown _____ Days 3) TOTAL _____ Days

H. DRYING TIME REQUIRED FOR HAND AND MACHINE PILES: _____

III. EMISSIONS ESTIMATES

A. TOTAL ESTIMATED PARTICULATE MATTER (PM₁₀): _____ Tons

IV. WIND PRESCRIPTION

A. SURFACE WIND SPEED AND DIRECTION <20 FEET: IDEAL _____ ACCEPTABLE _____ UNACCEPTABLE _____

B. WIND DIRECTION ALOFT >20 FEET: IDEAL _____ ACCEPTABLE _____ UNACCEPTABLE _____

C. IDENTIFY POTENTIAL METEOROLOGICAL CONDITIONS THAT WOULD INHIBIT ACCEPTABLE SMOKE DISPERSAL:

V. SMOKE DISPERSAL SURVEILLANCE AND MONITORING

Smoke dispersal surveillance and monitoring will be accomplished by the following methods when indicated. If the project is conducted near smoke sensitive areas or if the smoke from the project may impact smoke sensitive areas, smoke monitoring is required on all projects over 250 acres/day and on those projects that would continue burning or producing smoke overnight. It is recommended that the Burner should obtain a current Smoke Transport and Stability Forecast from the Interagency Fire Forecast Warning Unit (IFFWU). The Internet Web Address is: <http://www.fs.fed.us/r5/fire/north/fwv>. A test burn shall be conducted on a small portion of the project area prior to project implementation. All weather and surveillance records shall be filed in the project folder and be available for Air District Review upon request.

- A. Balloon _____ RAWS x _____ Aircraft _____ Visual Monitoring _____
Weather Forecast _____ Hygrothermograph _____ Belt Weather Kit _____
- B. METHOD/LOCATION OF VISUAL MONITORING: _____
- C. INTERVAL BETWEEN DISPERSAL MONITORING OBSERVATIONS: _____

VI. IDENTIFICATION OF SMOKE SENSITIVE AREAS (SSA)

Smoke Sensitive Areas (SSA's) include, but are not limited to the following: Population Centers (towns, villages, home sites, subdivisions), hospitals, schools, daycare centers, nursing homes, shopping centers, populated recreation areas, well-attended public events, major roads, airports, mandatory Class I Airsheds, and may include campgrounds and trails extensively used by recreationalists.

- A. LIKELY TO IMPACT CLASS I AIRSHED? YES NO
- B. LIKELY TO IMPACT OTHER SMOKE SENSITIVE AREAS? YES NO
- C. LIKELY TO IMPACT ANOTHER AQMD OR STATE (Oregon or Nevada)? YES NO
- D. LOCATION OF PROJECT LIES WITHIN MORE THAN ONE AQMD? YES NO
If yes, list other AQMD(s): _____
- E. PREVIOUS HISTORY OF ADVERSE SSA SMOKE IMPACTS (does NOT imply disapproval of project)? YES NO
If yes, list examples _____

VII. MITIGATIONS

Items checked below will be implemented as mitigation measures as part of this SMP.

- A. LIMIT IGNITION TO _____ ACRES / PILES per day. (Circle appropriate measure)
- B. NO MORE THAN _____ ACRES / PILES SHALL BE BURNED AT ONE TIME. (Circle appropriate measure)
- C. ALLOW _____ HOURS BETWEEN IGNITION OF PILES / UNITS. Check here if not applicable
- D. IGNITE BETWEEN _____ AND _____ HOURS. (Use military time).

VIII. EVALUATION OF ALTERNATIVES TO BURNING

Projects, which have met applicable National Environmental Policy Act (NEPA) or California Environmental Quality Act (CEQA) requirements, will be considered to have complied with this provision. Either a copy of the applicable environmental document can be attached to this SMP or a sufficiently detailed narrative of how alternatives to burning were carried out in order to reduce fuel loads and emissions.

Alternatives to burning the project could include: (1) mechanical or hand removal of exotic grass plants, (2) herbicide treatment of unwanted species, (3) burning at a different time of year, (4) use of biological controls such as introduction of predatory insects, viruses or ultracompetative plants, or (5) no action.

IX. CONTINGENCIES

Actions shall be taken if adverse smoke impacts affect smoke sensitive areas. Adequate resources or assets will be provided for the items checked below.

- A. HALT IGNITIONS, EXCEPT AS NEEDED TO MAINTAIN CONTROL OF FIRE.
- B. ALLOW FIRE TO BURN TO CONTINGENCY CONTROL LINES.
- C. SUPPRESS FIRE.
- D. BEGIN IMMEDIATE MOP UP.
- E. BEGIN MOP UP WITHIN _____ HOURS OF PROBLEM IDENTIFICATION.
- F. COMPLETE MOP UP WITHIN _____ HOURS OF INITIATION.
- G. DISCONTINUE MOP UP IF FAVORABLE CONDITIONS RETURN.
- H. Other (explain): _____

X. Public Notification

All of the actions checked below will be taken in order to advise the public and known sensitive receptors that prescribed burning will be conducted in their vicinity and to assure the public that measures will be taken to minimize the smoke impacts.

A. Type of Notification	Describe Activity and Timing
<input type="checkbox"/> RADIO.....	_____
<input type="checkbox"/> NEWSPAPER.....	_____
<input type="checkbox"/> TELEVISION	_____
<input type="checkbox"/> POSTERS/FLYERS/LETTERS.....	_____
<input type="checkbox"/> PERSONAL CONTACT	_____
<input type="checkbox"/> SIGNING at appropriate sites.....	_____
<input type="checkbox"/> OTHER (Explain)	_____

- B. If potential impacts were identified in Section VI, additional notifications may be required within the potentially impacted area. If required, describe supplemental notifications that will be undertaken to mitigate adverse impacts: N/A
- C. Notify Unit Emergency Command Center
- D. Notify Northern Region Duty Chief at the Cal-Fire Northern Region HQ for ignition approval
- E. Complete a Go-No-Go checklist to insure the project is in compliance with the prescription

XI. COMPLAINT PROCEDURES

Specific information concerning smoke complaints must be given by any complainant. Refusal by the complainant to provide essential information to officials regarding smoke impacts could minimize the urgency of the individual complaint. The person receiving a smoke complaint should make a good faith effort to obtain the following information:

- A. Name, location, phone number, and a short description of the situation, the areas affected by the smoke, whether people are physically suffering from smoke exposure and whether there is a public safety concern due to reduced visibility.
- B. All smoke-related complaints shall be forwarded as soon as possible to the Air District, but no later than 24 hours after the receipt of the complaint.
- C. The Air District will forward to the appropriate Burners any smoke-related complaints, which are received at the Air District Office as soon as possible, but no later than 24 hours after receipt of the complaint.
- D. A log of all complaint calls related to burn projects shall be kept in the project file for a period, of no less than, one year after completion of the specific project.

CONTACTING RESPONSIBLE OFFICIALS

DO NOT DISPLAY PERSONAL PHONE NUMBER INFORMATION IN BURN OR SMOKE PLANS

Make available to the Air District the names of the Prescribed Fire Manager/Burn Boss/Incident Commander and how they can be reached at all times (See General Information Section I.A.2). Include cell phone numbers, pager numbers, dispatch number and any other pertinent contact information. Burners are required to contact the Air District on a daily basis to verify that conditions are still favorable when implementing multi-day projects.

XIII. CERTIFICATION

If the burn project is to be implemented primarily for wildlife and game habitat improvement, the Applicant shall file with the Air District a statement from the California Department of Fish and Wildlife certifying that the burn is desirable and proper. The statement shall also specify if any brush treatment or other desired objective is required by the California Department of Fish and Wildlife.

XIV. MAPS

A map must be attached to this Smoke Management Plan that identifies nearby smoke sensitive areas, burn unit perimeters, available interior control lines (if suitable for this project), and areas subject to smoke inversions due to the burn project. Also, the map must indicate estimated path of unacceptable smoke transport.

XV. REPORTS

For fires greater than 250 acres, a post-burn smoke management evaluation/summary is required to be kept in the project folder. The post burn smoke management evaluation may be subject to review by the Air District.

XVI. APPROVALS

A. SMOKE MANAGEMENT PLAN

Submittal of this Smoke Management Plan (SMP) acknowledges that ignition of this burn project will not occur unless all conditions and requirements as stated in this SMP are met prior to ignition on the day of the burn event, the ARB and the Air District have both declared the day to be a burn day, and the Air District has authorized the burn on the day of the burn.

1. PREPARED BY: _____ 2. TITLE: _____

3. PREPARER'S ORGANIZATION: _____

4. PREPARER'S SIGNATURE: _____ DATE: _____

B. AIR DISTRICT SMP DECISION

1. AIR QUALITY MANAGEMENT DISTRICT NAME: _____

2. APPROVED AS SUBMITTED BY: _____ DATE: _____

3. APPROVED WITH CHANGES OR CONDITIONS BY: _____ DATE: _____

4. ARB NOTIFICATION BY: _____ DATE: _____

5. DOCUMENT CHANGES OR CONDITIONS: _____

6. DISAPPROVED AS SUBMITTED BY: _____ DATE: _____

For the following Reasons: _____

VTP EIR Prescribed Fire GO-NO GO CHECKLIST

PROJECT NAME _____

PROJECT NUMBER _____

YES NO PRESCRIBED FIRE GO/NO-GO CHECKLIST

1. Weather Forecast Requirements have been met.

2. Current conditions are within minimum/maximum prescription criteria

TIME _____ TEMP _____ R.H. _____ WIND DIR. _____

_____ WIND SPEED _____ FUEL STICK _____ LIVE _____

FUEL _____

3. The fire weather forecast indicates no adverse change expected.

4. Applicable permits have been issued and the project complies with all requirements of the permits.

5. Personnel and equipment required in the IAP are in position.

6. All personnel have been briefed on the IAP

Prescribed Burn Plan

Communications Plan

Safety Plan

7. Backup and support resources are available in strength needed to

contain escapes within the burning period.

8. Notifications have been made

Adjacent Landowners

Unit ECC

Lookouts & Air Attack Bases (summer only)

Region ECC/Duty Chief

A.P.C.D

Other: _____

9. If a test burn is not required, go to #10

N/A A test plot has been burned satisfactorily

10. Has any "No" box been checked? If so, do not burn unless approval to modify the plan has been received.

BEGIN PRESCRIBED FIRE OPERATION!

11. Can the plan be modified or action taken to rectify the situation?



IF "NO", **DO NOT BURN!**

Describe plan change or action to be taken: _____

Obtain approval of: UNIT CHIEF or Unit Duty Chief.

Name _____ Date _____ Time _____

Method of contact Radio Phone Personal Contact

BEGIN PRESCRIBED FIRE OPERATIONS!