FIRE PREVENTION PLAN
for INDUSTRIAL , COMMERCIAL and RECREATIONAL OPERATIONS
for THE AUBURN STATE RECREATION AREA

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A guide on behalf of the United States Bureau of Reclamation

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CDF PROJECT REVIEWS

PURPOSE / INTRODUCTION

The United States Bureau of Reclamation (Reclamation) contracts with the California Department of Forestry and Fire Protection (CDF) for fire protection and fire prevention services within the Auburn State Recreation Area (ASRA)or Reclamation lands. It is CDF's contracted responsibility to identify fire mitigation measures of various activities within the ASRA. CDF's goal is to reduce fire starts and reduce the impacts of fire by implementing fire prevention measures on all activities, including industrial and commercial operations within the ASRA.

This plan provides the minimum fire prevention standards to conduct industrial, commercial and recreational operations on the Federal lands within the ASRA. This plan establishes a project review component, which proactively identifies fire hazards early, thus reducing the potential for wildfires.

Many of the fire prevention requirements in this document refer to sections of the Public Resources Code, which apply to private forest, brush and grass covered lands. Federal Regulations are cited and used as a guide in the development of this document as well. This document will be used by Reclamation, California State Parks (CSP), and contractors.

PROJECT REVIEW

The intent is to be proactive in reducing the potential for fire starts resulting from recreation, commercial and industrial operations in the ASRA. Fires that start as a result of these activities have a high risk of becoming large and damaging fires. Therefore, it is imperative that project proposals, within the ASRA, be reviewed by CDF during the planning process and, during project implementation. The review process allows CDF to identify fire hazards and make recommendations or establish requirements in order reduce fire risk. Recommendations or requirements will be made by CDF to the regulatory agencies, Reclamation and State Parks, for incorporation into a project proposal.

INSPECTIONS

All equipment and facilities within a project area will be subject to fire prevention inspection by CDF. Appropriate inspections will be conducted, prior to and during project implementation.

A. All equipment will be inspected to meet fire prevention standards. Prior to the introduction of a piece of equipment that has not been operated in the area, at least 24 hours notice prior to equipment operation will be provided to the California Department of Forestry and Fire Protection, Auburn headquarters to the personnel

listed in the Contact section of this document. Minimum standards must always be met.

FIRE REPORTING

All fires within the ASRA shall be reported immediately upon detection via the 911 emergency system, weather extinguished or not. All fires will be investigated and overhauled by CDF.

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION CONTACT INFORMATION

Relating to matters of fire prevention on Federal lands in the ASRA, contact the Auburn Dam Project Patrol Officer (P2323) within the Fire Prevention Bureau at Auburn CDF headquarters in Auburn or the local battalion chief (B2311) for the area at:

CDF&FP
13760 Lincoln Way
Auburn, Ca 95603
530-889-0111 ext 123 or 111 respectively.
If not able to contact the above, the receptionist at 530-889-4904 will receive the information.

GENERAL FIRE PREVENTION REQUIREMENTS

A Minimum Fire Safety Standards Related to Defensible Space.

(a) This section applies to the construction of structures and access requirements on Federal lands within the ASRA. The requirements are displayed in **Attachment 1** of this document, which address the following:
(1) Road standards for fire equipment access.
(2) Standards for signs, identifying streets, roads, and buildings.
(3) Minimum water supply reserves for emergency fire use.

B. Attachment 2 displays these requirements graphically.

(a) Maintain around and adjacent to any such building or structure additional fire protection or firebreak made by removing all brush, flammable vegetation, or combustible growth which is located from 30 feet to 100 feet from such building or structure or to the property line, whichever is nearer, as may be required by the director if he/ she finds that, because of extra hazardous

conditions, a firebreak of only 30 feet around such building or structure is not sufficient to provide reasonable fire safety. Grass and other vegetation located more than 30 feet from such building or structure and less than 18 inches in height above the ground may be maintained where necessary to stabilize the soil and prevent erosion. *Each facility will be inspected by a CDF representative and recomendations will be made regarding vegetation clearences.*

(b) Remove that portion of any tree, which extends within 10 feet of the outlet of any chimney or stovepipe.

(c) Maintain any tree adjacent to or overhanging any building free of dead or dying wood.

(d) Maintain the roof of any structure free of leaves, needles, or other dead vegetative growth.

(e) Provide and maintain at all times a screen over the outlet of every chimney or stovepipe that is attached to any fireplace, stove, or other device that burns any solid or liquid fuel. The screen shall be constructed of nonflammable material with openings of not more than one-half inch in size.

See Attachment 2, examples.

C. Tools Required for Welding/Cutting/Grinding.

The following is required: During any time of the year when burning permits are required in an area pursuant to this article, which is May 1st until the end of declared fire season, no person shall use or operate any motor, engine, boiler, stationary equipment, welding equipment, cutting torches, tarpots, or grinding devices from which a spark, fire, or flame may originate, which is located on or near any forest-covered land, brush-covered land, or grass-covered land, without doing both of the following:

(a) First clearing away all flammable material, including snags, from the area around such operation for a distance of 25 feet.

b) Maintain one serviceable round point shovel with an overall length of not less than forty-six (46) inches and one backpack pump water-type fire extinguisher fully equipped and ready for use at the immediate area during the operation. *A five gallon pressurized water fire extinguisher is appropriate in lieu of the backpack water pump.*

This section does not apply to portable powersaws, gold suction dredges and other portable tools powered by a gasoline-fueled internal combustion engine.

D. Vehicles and Water Storage for Suppression on Industrial Operations

(a) Each passenger vehicle, used on operations shall be equipped with one water fire extinguisher or backpack pump in the amount of three to five gallons. Each tractor used in such operation shall be equipped with one 4ABC fire extinguisher. (d) As used in this section: (1) "Vehicle" means a device by which any person or property may be propelled, moved, or drawn over any land surface, excepting a device moved by human power or used exclusively upon stationary rails or tracks. (2) "Passenger vehicle" means a vehicle which is self-propelled and which is designed for carrying not more than 10 persons including the driver, and which is used or maintained for the transportation of persons, but does not include any motortruck or truck tractor.

(b) Certain projects *may be* required to have an on site 300 gallon (minimum) <u>portable</u> water tank (full) with operable pump and 500 feet of 1.5 inch single jacket hose and nozzle be present. All personnel on site must be trained in the operation and mobilization of the tank and pump. This equipment will be used for the suppression of fires at the project site.

E. Gasoline Powersaw and Powertool Requirments

During any time of the year when burning permits are required in an area pursuant to this article, no person shall use or operate or cause to be operated in the area any portable saw, auger, drill, tamper, or other portable tool powered by a gasoline-fueled internal combustion engine on or near any forest-covered land, brush-covered land, or grass-covered land, within 25 feet of any flammable material, without providing and maintaining at the immediate locations of use or operation of the saw or tool, for firefighting purposes one serviceable round point shovel, with an overall length of not less than 46 inches, or one serviceable 3 – 5 gallon pressurized fire extinguisher or 5 gallon back pump. The required fire tools shall at no time be farther from the point of operation of the power saw or tool than 25 feet with unrestricted access for the operator from the point of operation.

F. Spark Arresters or Fire Prevention Measure, Requirements, Exemptions.

(a) Except as otherwise provided in this section, no person shall use, operate, or allow to be used or operated, any internal combustion engine which uses hydrocarbon fuels on any forest-covered land, brush-covered land, or grass-covered land unless the engine is equipped with a spark

arrester, as defined in subdivision (c), maintained in effective working order or the engine is constructed, equipped, and maintained for the prevention of fire.

(b) Spark arresters affixed to the exhaust system of engines or vehicles subject to this section shall not be placed or mounted in such a manner as to allow flames or heat from the exhaust system to ignite any flammable material.

(c) A spark arrester is a device constructed of nonflammable materials specifically for the purpose of removing and retaining carbon and other flammable particles over 0.0232 of an inch in size from the exhaust flow of an internal combustion engine that uses hydrocarbon fuels or which is qualified and rated by the United States Forest Service.

(d) Engines used to provide motive power for trucks, truck tractors, buses, and passenger vehicles, except motorcycles, are not subject to this section if the exhaust system is equipped with a muffler as defined in the Vehicle Code.

(e) Turbocharged engines are not subject to this section if all exhausted gases pass through the rotating turbine wheel, there is no exhaust bypass to the atmosphere, and the turbocharger is in effective mechanical condition.

G. Portable Powersaws,

No person shall use, operate, or cause to be operated on any forest-covered land, brush-covered land, or grass-covered land any handheld portable, multiposition, internal-combustion engine, which is operated on hydrocarbon fuels, unless it is constructed and equipped and maintained for the prevention of fire.

H. Explosives

All local codes pertaining to the storage of explosives, and safety plans addressing explosive storage shall be adhered to. There is a minimum vegetation clearance of 50’ from the storage unit in all direction, and depending on slope and proximity of the storage unit on the slope, up to 150’ of vegetation clearance may be required. Consult the appropriate CDF representative regarding storage site selection.

I. Power Lines

Any power pole that supports a switch, fuse, transformer, lightning arrester, line junction or dead end or corner pole must have a vegetative clearence, to

bare mineral soil, 10 feet in each direction from the outer circumference of such pole or tower. Communication lines do not apply.

Vegetative clearances for the respective distances, which are for all directions between all vegetation and all conductors, which are carrying electric current:

(a) For any line which is operating at 2,400 or more volts, but less than 72,000 volts, four feet.
(b) For any line which is operating at 72,000 or more volts, but less than 110,000 volts, six feet.
(c) For any line which is operating at 110,000 or more volts, 10 feet.

Dead trees, old decadent or rotten trees, trees weakened by decay or disease and trees or portions thereof that are leaning toward the line which may contact the line from the side or may fall on the line shall be felled, cut, or trimmed so as to remove such hazard.

These vegetative clearance distances are the minimum required and may be allowed or required to be greater. Consult CDF for support information. The Pacific Gas and Electric Company is a valuable resource to consult for power line clearance expertise and information.

Attachment 1
Access/Egress Standards

Attachment 2
Fire Safe Examples

Attachment 3
Industrial Guide