Big Pines – Fuels Reduction Project
Project Statement of Work and Request for Proposals
Angeles National Forest, California

Background and Statement of Work: The Big Pines Fuels Reduction Project is located on the Angeles National Forest (ANF) near Wrightwood, CA. This 1,236-acre project is a partnership between the National Forest Foundation (NFF) and the ANF. The purpose of this project is to provide community protection by reducing fire intensity around 12 special-use organizational camps, the proposed Big Pines Historic District, two ski resorts, a facility of the Jet Propulsion Laboratory, McClellan Flat recreation cabins, and the Big Pines Information Station. Project activities include removing dead and dying trees and brush, thinning forested areas, and creating defensible areas in case of wildfires.

Information Requested: If interested in this project, please provide a bid for the above statement of work by providing approach, work experience, and cost. Please also include your capacity for this project and efficiency in fuel reduction projects in the past, if any.

This is a request for proposals only and quotations furnished are not offers. This request does not commit the National Forest Foundation to pay any costs incurred in the preparation of submission of the quotation or to contract for supplies or services.

General Specifications
(a) Description of Work – Fuel reduction for this project will be alongside the Big Pines Highway and all access roads; around organized camps, facilities, and other improvements that currently contain fuel conditions that do not meet fuel objectives; and in areas adjacent to organized camps, facilities, and other improvements, modify fuel conditions based on topography commensurate with the size of the facility to protect. See Attachment A: Big Pines Project Map for general area.

Project activities will include the following:
1. Remove all dead, dying, or hazard trees (including trees with over 75% mistletoe coverage).
2. Thin timber stands to contain 20-22 feet spacing between the boles of the trees (maximum removal size for conifers is 14” dbh; maximum removal size for hardwood is 12” dbh).
3. Reduce shrub component ground cover to 15%.
4. Prune the remaining trees up to 10ft high or 1/3’d of the tree height, whichever is lower.
5. Remove or treat all downed fuels.

For detailed information, see Attachment B: Big Pines Fuel Reduction Specifications.

(b) Project Location –

The project area is located in T3N, R8W Sections 2, 3, 11 and T4N, R8W Sections 28 – 35 along Big Pines Highway, from the Big Pines Information Station northwest to the Forest Boundary at Mile High Ranch in Los Angeles County, California. See Attachment A: Big Pines Project Map.
Google map link to Big Pines Information Station: https://goo.gl/maps/sMoKF8ZHkGt5HH1N6

(c) **Work Schedule** - The estimated timeline for this project is as follows:

1. Start project in Fall 2022 and complete project by Fall 2025. Due to the large size of this project, the Contractor may complete more than, but no less than, 412 acres per year for the duration of the three years.
2. Work shall take place whenever Project Activity Levels (PAL) allow. See Attachment C – Fire Plan for more information.

**Pricing Schedule**

Contractor shall price work according to the schedule below. Prevailing wages are required per conditions of funding sources.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut and Pile, Cut and Lay Brush, Chip Cut Material, Masticate, Remove Dead Trees, Thin Trees, Prune Trees, Reduce Canopy Cover</td>
<td>1,236</td>
<td>Acres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spray Invasives</td>
<td>30-50</td>
<td>Acres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand line construction around perimeter of Project</td>
<td>2,556</td>
<td>Feet</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Project Requirements and Specifications**

(a) **Utilities** – There are restrooms located along Big Pines Highways such as at Appletree Campground. However, the Contractor is responsible for requesting to locate utilities. The Contractor shall make its own arrangements for temporary facilities if needed.

(b) **Specifications** –

a. Project work shall be accomplished in accordance with the following:

i. The Contractor shall be prepared to participate in a Pre-Implementation meeting with staff from the National Forest Foundation and from the Angeles National Forest. Prior to this meeting, the Contractor shall:

1. Submit a Fire Plan
2. Submit a Quality Control Plan
3. Submit a Work Schedule. Any deviation from this schedule shall require sending an updated schedule immediately

**Contractor Qualifications**

(a) **References** – Please provide three references.

(b) **Past Experience** – Please provide a brief explanation of previous work experience with land management agencies.
Insurance Requirements

Upon selection of the winning bid, the chosen contractor will be asked to affirm that it has and shall maintain State minimum workers’ compensation insurance coverage for its employees, if any. The selected contractor shall also maintain broad form general liability, property damage, and automotive liability insurance in the minimum amount of $1,000,000 for bodily injury, death, or damage to property of any person and $2,000,000 for bodily injury, death, or damage to property of more than one person. The Contractor shall name NFF an Additional Named Insured and provide NFF with documentation evidencing such coverages.

Performance Security

Chosen contractor shall post cash, a letter of credit, bond, or other financial security that is easily convertible into cash in a form acceptable to the NFF in its sole determination in the amount of 5% of the amount due to contractor, not to exceed $50,000 dollars, to assure completion of the work required under this Agreement and payment of all amounts lawfully due to all persons supplying or furnishing to the Contractor or Contractor’s subcontractors with labor, laborers, materials, rental machinery, tools or equipment used or to perform the work. As work is completed in integrated component parts, inspected, approved and, if applicable, conveyed to NFF, the Performance Security shall be released in a proportional amount, unless a lesser amount of release is necessary to maintain 5% Performance Security.

Bid Submission

Submit bids via email to flepe@nationalforests.org by August 24, 2022.

Contractor Selection Process

The NFF will use the Evaluation Factors below to review each submitted bid. Based on the outcomes of that selection process, the NFF will notify successful and unsuccessful bidders by August 31, 2022 and will prepare a separate contract document.

Point of Contact

For questions about the details of producing the bid, please contact:

Felipe Lepe
National Forest Foundation, Southern California Program Coordinator
818.914.9836
flepe@nationalforests.org
### Evaluation Factors and Relative Importance

<table>
<thead>
<tr>
<th>Level 3 Criteria</th>
<th>Level 2 Criteria</th>
<th>Level 1 Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Price / cost</td>
<td>• Technical proposal/proposed approach to project</td>
<td>• Benefits to the local community</td>
</tr>
<tr>
<td>• Equipment and contractor capability</td>
<td>• Overall strategic benefits to meeting NFF goals and grant needs, requirements, and timelines</td>
<td>• Relationship to local community</td>
</tr>
<tr>
<td>• Timing of when contractor can begin and/or finish the project</td>
<td></td>
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<tr>
<td>• Past performance, references, and USFS feedback</td>
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</tbody>
</table>

### Equal Opportunity Provider

In accordance with Federal law and U.S. Department of Agriculture policy, the National Forest Foundation is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs, or disability.
The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be developed from sources of differing accuracy, inexact and at varying scales, based on modeling or interpretation, incomplete while being created or revised, etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify, or replace, GIS products without notification.

1.0 0.75 1.5
Miles

NAD 83 UTM Zone 11

18,000
Attachment B: Big Pine Fuel Reduction Project
Design Features and Best Management Practices

Removal Methodology and Silvicultural Prescriptions

1. In flat areas (less than 35% slope)
   a. Trees will be removed by ground-based logging equipment such as tractor skidder.
   b. Shrubs and logging slash will be chipped.
   c. Cut trees will be limbed and cut into 3ft sections, piled for firewood 10ft away from the bole of standing trees. Limbs will be chipped.

2. In areas greater than 35% slope
   a. Trees will be removed by cable system or by hand. Trees over 50% slope may be left onsite whole but need to be limbed with limbs either piled or scattered away from trees.
   b. Shrubs and logging slash will be chipped with chip piles no more than 3 inches deep.
   c. Cut trees will be limbed and cut into 3ft sections, piled for firewood 10ft away from the bole of standing trees. Limbs will be chipped.
   d. Occasional short steeper pitches up to 50%, equipment may be allowed.

3. In areas with special restrictions (around organizational camps, heritage sites, riparian areas, and wildlife areas)
   a. Trees will be removed by hand methods, log loader, or cable-based systems.
   b. All logging slash and shrub material will be cut and chipped with chip depth no more than 3 inches.
   c. Cut trees will be limbed and cut into 3ft sections, piled for firewood 10ft away from the bole of standing trees. Limbs will be chipped.

4. In areas where there is a dense population of conifers and hardwoods, and the chipped material will likely be more than 3 inches, the boles of the trees and/ or the chips may need to be removed.

5. Preference for retention of trees is listed as: Big Cone Douglas-fir, black oak, sugar pine, Jeffery pine, Coulter pine, incense cedar, single-leaf pinyon pine and white fir.

Public Coordination Prescriptions

6. Layout, design, and implementation of prescriptions will be coordinated, as possible, with representatives of each permitted use area within the project area.

Visual Quality Prescriptions

7. Unit boundaries will tie, where possible, to natural landform and vegetation edges will blend with natural patterns found in the adjacent landscape. Where possible, trees will be left in a random pattern with occasional clumping of trees so that the resulting stand appears open in some areas
and denser in others. Achieve an un-even aged stand is desirable. Shrubs will vary in size randomly scattered across the landscape.

8. Tree stumps along the Big Pines Highway, Highway 2 and private homes will be no more than 6 inches high and angle cut away from the road in the immediate foreground 300’ or sight distance (whichever is less). Slash will be randomly scattered across the forest floor in a pattern that mimics adjacent stand conditions. Slash that is masticated should not exceed 2 inches in depth. Slash that is chipped will not exceed 3 inches in depth.

9. Log landings within view of the Highway will be fully rehabilitated (ripped and scarified, seeded if needed) and all slash and debris will be removed from the landing upon completion of the project.

10. Burn piles will be kept at 5ft high by 8ft wide.

11. Where feasible, locate skid trails on the contour within view of the Big Pines Highway and Highway 2 to avoid perpendicular lines/corridors, which motorists or recreationists can easily see from the highway. This will reduce visual effect of straight line and reduce skid trail from being utilized as a recreation corridor for motorized and non-motorized users.

Wildlife and Plant Prescriptions (including Threatened, Endangered and Sensitive Species)

12. For Southern Rubber Boa, large down logs that are located near rock outcrops or are located at the edge of the project areas not adjacent to roads will be left where practical. No burn piles will be established on large down logs. No burn piles or wood chip piles will be located on rock outcrops.

13. Two snags per acre in conifer and oak ecosystems and five snags per acre in the riparian areas will be left where possible (favoring trees greater than 12” dbh and at least 20 feet high) and where they do not pose safety hazards to the public to provide habitat for snag dependant species.

14. Moderate potential for foraging of California Spotted Owl is possible. Perform presence surveys for California Spotted Owls in the project area. If nesting pairs are located in the project area, implement a standard limited operation period. Limited operations period (no treatment activities from February 1st to August 15th) to prevent impacts/ disturbance in units that may be occupied by California Spotted Owls.

15. Where they do not present a public safety hazard, wildlife use trees such as acorn woodpecker acorn storage tress and trees with nest holes will be retained.

16. Any wildlife denning or nesting locations found during project implementation will stop in the area until a Biologist or Project Inspector visits the location and makes a determination about continued treatments.
17. The project area will be surveyed for sensitive and watchlist plants prior to project implementation where potential habitat has been identified within the project area.

18. Occurrences of sensitive and watchlist plants located during field surveys will be mapped and avoided during project implementation.

19. Any sensitive or watchlist plant occurrences located during project implementation will be mapped and avoided.

20. No burn piles will be located on any sensitive or watchlist plants.

Watershed Prescriptions


22. Within Stream Management Zones (SMZ), activities shall not result in more than a 30% reduction in the potential ground cover vegetation at any one time.

23. The Oil and Hazardous Substances Pollution Contingency Plan, as updated, will be used to guide reporting and action requirements for accidental spills of toxic hazardous materials on the forest.

24. All stream courses, wetlands, etc will be buffered 100 feet with a 100 foot SMZ. Hand thinning in these zones.

25. No riparian dependent species will be thinned in units.

26. Encourage Coarse Woody Debris (CWD) development along stream channels by falling and leaving excess snags not needed for wildlife or fuels reduction needs (10-14 inch dbh recommended).

Noxious Weeds Prescriptions

27. A field reconnaissance of the project areas (prior to implementation) and a noxious weed assessment will be developed for the project. The noxious weed assessment will specify areas where disturbance from equipment, fire, and project-related weed vectors will not be permitted.

28. Implement the standard “C” clause used during timber projects to prevent noxious weeds. Any heavy equipment used during project implementation will be free from noxious weeds or invasive exotic weeds before entering the project area. If any equipment enters a weed occurrence in the project area it will be washed to remove weed propagules prior to leaving the project area.

29. All equipment staging areas and burn pile areas will be located away from located noxious weed occurrences.

30. Where possible, locate burn piles away from roads to prevent invasion by noxious weeds (25ft).
1. SCOPE:

The provisions set forth below outline the responsibility for fire prevention and suppression activities and establish a suppression plan for fires within the contract area. The contract area is delineated by map in the contract. The provisions set forth below also specify conditions under which contract activities will be curtailed or shut down.

2. RESPONSIBILITIES:

A. Contractor

(1) Shall abide by the requirements of this Fire Plan.

(2) Shall take all steps necessary to prevent his/her employees, subcontractors and their employees from setting fires not required in completion of the contract, shall be responsible for preventing the escape of fires set directly or indirectly as a result of contract operations, and shall extinguish all such fires which may escape.

(3) Shall permit and assist in periodic testing and inspection of required fire equipment. Contractor shall certify compliance with specific fire precautionary measures in the fire plan, before beginning operations during Fire Precautionary Period and shall update such certification when operations change.

(4) Shall designate in the Fire Plan and furnish on Contract Area, during operating hours, a qualified fire supervisor authorized to act on behalf of Contractor in fire prevention and suppression matters.

B. Forest Service

The Forest Service may conduct one or more inspections for compliance with the Fire Plan. The number, timing, and scope of such inspections will be at the discretion of agency employees responsible for contract administration. Such inspections do not relieve the Contractor of responsibility for correcting violations of the fire plan or for fire safety in general, as outlined in paragraph 2.A above.

3. DEFINITIONS:

The following definitions shall apply:

Active Landing: A location the contractor may be skidding logs into, or performing other operations such as delimbing, log manufacturing, and chipping logs. Except for EV and E days, loading logs or stockpiling chips only, on a cleared landing, does not constitute an Active Landing.

Hot Saw: A harvesting system that employs a high-speed (>1100 rpm) rotating felling head, i.e., full rotation lateral tilt head.

Mechanical Operations: The process of felling, skidding, chipping, shredding, masticating, piling, log processing and/or yarding which requires the use of motorized power which includes, chainsaws, chippers, motorized carriages, masticators, stroke delimiters, skidders, dozers etc.

4. TOOLS AND EQUIPMENT:

The Contractor shall comply with the following requirements during the fire precautionary period, as defined by unit administering contracts:

The Fire Precautionary Period is year-round.
This contract requires, does not require, a Fire Box and associated Fire Tools according to CPRC Section 4428.

A. Fire Tools and Equipment: Contractor shall meet minimum requirements of Section 4428 of the California Public Resources Code (C.P.R.C.). Fire tools kept at each operating landing shall be sufficient to equip all employees in the felling, yarding, loading, chipping, and material processing operations associated with each landing. Fire equipment shall include two tractor headlights for each tractor dozer used in Contractor's Operations. Tractor headlights shall be attachable to each tractor and served by an adequate power source. All required fire tools shall be maintained in suitable and serviceable condition for fire fighting purposes.

Trucks, tractors, skidders, pickups and other similar mobile equipment shall be equipped with and carry at all times a size 0 or larger shovel with an overall length of not less than 46 inches and a 2-1/2 pound axe or larger with an overall length of not less than 28 inches.

Where cable yarding is used, Contractor shall provide a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump within 25 feet of each tail and corner block.

B. Fire Extinguishers: Contractor shall equip each internal combustion yarder, fuel truck, and loader with a fire extinguisher for oil and grease fires (4-A:60-B:C). Skidders and tractors shall be equipped with a minimum 5-BC fire extinguisher.

All Fire Extinguishers shall be mounted, readily accessible, properly maintained and fully charged.

Contractor shall equip each mechanized harvesting machine with hydraulic systems, powered by an internal combustion engine (chipper, feller/buncher, harvester, forwarder, hot saws, stroke delimber, etc), except tractors and skidders, with at least two 4-A:60-B:C fire extinguishers or equivalent.

C. Spark Arresters and Mufflers: Contractor shall equip each operating tractor and any other internal combustion engine with a spark arrester, except for motor vehicles equipped with a maintained muffler as defined in C.P.R.C. Section 4442 or tractors with exhaust-operated turbochargers. Spark Arresters shall be a model tested and approved under Forest Service Standard 5100-1a as shown in the National Wildlife Coordinating Group Spark Arrester Guide, Volumes 1 and 2, and shall be maintained in good operating condition. Every motor vehicle subject to registration shall at all times be equipped with an adequate exhaust system meeting the requirements of the California Vehicle Code.

D. Power Saws: Each power saw shall be equipped with a spark arrester approved according to C.P.R.C. Section 4442 or 4443 and shall be maintained in effective working order. An Underwriters Laboratories (UL) approved fire extinguisher containing a minimum 14 ounces of fire retardant shall be kept with each operating power saw. In addition, a size 0 or larger shovel with an overall length of not less than 38 inches shall be kept with each gas can but not more than 300 feet from each powersaw when used off cleared landing areas.

E. Tank Truck or Trailer: Contractor shall provide a water tank truck or trailer on or in proximity to Contract Area during Contractor's Operations hereunder during Fire Precautionary Period. When Project Activity Level B or higher is in effect, a tank truck or trailer shall be on or immediately adjacent to each active landing, unless otherwise excepted when Hot Saws or Masticators are being used. See Section 6 for specific contract requirements.

The tank shall contain at least 300 gallons of water available for fire suppression. Ample power and hitch shall be readily available for promptly and safely moving tank over roads serving Contract Area. Tank truck or trailer shall be equipped with the following:

1. Pump, which at sea level, can deliver 23 gallons per minute at 175 pounds per square inch measured at the pump outlet. Pumps shall be tested on Contract Area using a 5/16 inch orifice in the Forester One Inch In-Line Gauge test kit. Pump shall meet or exceed the pressure value in the following table for nearest temperature and elevation:
The pump outlet shall be equipped with 1-1/2 inch National Standard Fire Hose thread. A bypass or pressure relief valve shall be provided for other than centrifugal pumps.

(2) 300 feet of 3/4-inch inside diameter rubber-covered high-pressure hose mounted on live reel attached to pump with no segments longer than approximately 50 feet, when measured to the extreme ends of the couplings. Hose shall have reusable compression wedge type 1-inch brass or lightweight couplings (aluminum or plastic). One end of hose shall be equipped with a coupling female section and the other end with a coupling male section. The hose shall, with the nozzle closed, be capable of withstanding 200 PSI pump pressure without leaking, distortions, slipping of couplings, or other failures.

(3) A shut-off combination nozzle that meets the following minimum performance standards when measured at 100 P.S.I. at the nozzle:

<table>
<thead>
<tr>
<th>G.P.M.</th>
<th>Horizontal Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Stream</td>
<td>10</td>
</tr>
<tr>
<td>Fog Spray</td>
<td>6 - 20</td>
</tr>
</tbody>
</table>

(4) Sufficient fuel to run the pump at least 2 hours and necessary service accessories to facilitate efficient operation of the pump.

When Contractor is using Hot Saws or Masticators, an additional 250 feet of light weight hose, approved by the Forest Service, shall be immediately available for use and be capable of connecting to the 300 feet of hose and appurtenances in (2) and (3) above.

This equipment and accessories shall be deliverable to a fire in the area of operations and is subject to the requirements for each specific activity level identified in Section 6.

F. Compressed Air Foam System: A Compressed Air Foam System (CAFS) is a fire suppression system where compressed air is added to water and a foaming agent. By agreement, Contractor may substitute a CAFS or functional equivalent in lieu of the tank truck, trailer or fire extinguishers, provided it meets or exceeds the following specifications and requirements:

2. Units shall be kept fully charged with air; water and foam concentrate as recommended by the manufacturer and have the appropriate tools to service the system.
3. The unit shall contain enough energy to empty tank and clear hose prior to exhausting propellant.
4. The unit shall be capable of being completely recharged within 10 minutes.
5. When used on cable yarding landings, the unit shall be outfitted for immediate attachment to carriage and transported without damage to the unit.
Fire extinguishers required for Hot Saws, Masticators and similar equipment identified in Section 4 B. above may be substituted with a 3 gallon CAFS.

Tank truck, trailer or equivalent may be substituted with a 30 Gallon CAFS with at least 550 feet of one inch hose and an adjustable nozzle with enough water, air and foam concentrate for at least one recharge.

This equipment and accessories shall also be deliverable to a fire in the area of operations and subject to the requirements for each specific activity level identified in Section 6.

5. GENERAL

A. **State Law**: In addition to the requirements in this Fire Plan, the Contractor shall comply with all applicable laws of the State of California. In particular, see California Public Resource Codes.

B. **Permits Required**: The Contractor must secure a special written permit from the District Ranger or designated representative before burning, welding or cutting metal or starting any warming fires. If contract requires Blasting and Storing of Explosives and Detonators, an Explosives Permit may be required pursuant to the California Health and Safety Code, Section 12101.

C. **Blasting**: Contractor shall use electric caps only unless otherwise agreed in writing. When blasting is necessary in slash areas, a Fire Patrolperson equipped with a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump shall remain in the immediate area for an hour after blasting has been completed.

D. **Smoking**: Smoking shall not be permitted during fire season, except in a barren area or in an area cleared to mineral soil at least three feet in diameter. In areas closed to smoking, the CO may approve special areas to be used for smoking. The Contractor shall designate smoking areas. Contractor shall post signs regarding smoking and fire rules in conspicuous places for all employees to see. Contractor's supervisory personnel shall require compliance with these rules. Under no circumstances shall smoking be permitted during fire season while employees are operating light or heavy equipment, or walking or working in grass and woodlands.

E. **Storage and Parking Areas**: Equipment service areas, parking areas, and gas and oil storage areas shall be cleared of all flammable material for a radius of at least 10 feet unless otherwise specified by local administrative unit. Small mobile or stationary internal combustion engine sites shall be cleared of flammable material for a slope distance of at least 10 feet from such engine. The COR shall approve such sites in writing. Immediate precautionary measure shall be taken upon discovery of leaking equipment by placing plastic and or other ground cover under leak to prevent environmental damage.

F. **Reporting Fires**: As soon as feasible but no later than 15 minutes after initial discovery, Contractor shall notify Forest Service of any fires on Contract Area or along roads used by Contractor. Contractor's employees shall report all fires as soon as possible to any of the following Forest Service facilities and/or personnel listed below, but not necessarily in the order shown:

<table>
<thead>
<tr>
<th>Name</th>
<th>Office Address</th>
<th>Office telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dispatch Center</strong></td>
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<tr>
<td>Nearest FS Station</td>
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<tr>
<td>COR/Inspector</td>
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<tr>
<td>Government Technical Contact</td>
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<tr>
<td>District Ranger</td>
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<tr>
<td><strong>District Fuels</strong></td>
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<tr>
<td><strong>Battalion Chief</strong></td>
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</table>
When reporting a fire, provide the following information:

- Your Name
- Call back telephone number
- Project Name
• Location: Legal description (Township, Range, Section); and Descriptive location (Reference point)
• Fire Information: Including Acres, Rate of Spread and Wind Conditions.

This contract ☒ requires, ☐ does not require, Section 5G of the Fire Plan.

G. Communications: Contractor shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Contractor's headquarters. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service may accept a reasonable alternative location. The communication system shall provide prompt and reliable communications between Contractor's headquarters (or agreed to alternative) and Forest Service via commercial or Forest Service telephone.

This contract ☒ requires, ☐ does not require, Section 5H of the Fire Plan.

H. Fire Patrolperson: Contractor shall furnish a qualified fire patrolperson each operating day when Project Activity Level C or higher is in effect. When on duty, sole responsibility of patrolperson shall be to patrol the operation for prevention and detection of fires, take suppression action where necessary and notify the Forest Service as required. This Fire patrol is required on foot, unless otherwise agreed. By agreement, one patrolperson may provide patrol on this and adjacent projects. No patrolperson shall be required on Specified Road construction jobs except during clearing operations unless otherwise specified.

The Contractor shall, prior to commencing work, furnish the following information relating to key personnel:

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Supervisor</td>
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<td></td>
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<tr>
<td>Fire Patrolperson</td>
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</tbody>
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I. Clearing of Fuels: Contractor shall clear away, and keep clear, fuels and logging debris as follows:

<table>
<thead>
<tr>
<th>Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:</th>
<th>10 feet slope radius</th>
</tr>
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<tbody>
<tr>
<td>Tail or corner haulback blocks:</td>
<td>All running blocks shall be located in the center of an area cleared to mineral soil at least 15 feet in diameter.</td>
</tr>
<tr>
<td>Lines near, between or above blocks:</td>
<td>Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material.</td>
</tr>
</tbody>
</table>

6. EMERGENCY PRECAUTIONS

Contractor's Operations shall conform to the limitations or requirements in the Project Activity Level (PAL) table below. Project Activity Levels applicable to this project shall be the predicted activity levels for the Fire Danger Rating Area(s), or fire weather station(s) stated in the Contract Area Map Legend on Integrated Resource Service Contracts (IRSC’s), and other contracts where applicable.

<table>
<thead>
<tr>
<th>Fire Danger Rating Area/Fire Weather Station for Project</th>
<th>Area 692</th>
</tr>
</thead>
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The Forest Service, in its sole discretion, may change the predicted activity level if the current fire suppression situation, weather and vegetation conditions warrant an adjustment. If practicable, Forest Service will determine the following day's activity level by 6:00 PM. Contractor shall obtain the predicted Project Activity Level from the appropriate Ranger District Office before starting work each day.
Phone Number or Website to obtain Predicted Activity Levels:  909-382-2997

Forest Service may change the Project Activity Level Table to other values upon revision of the National Fire Danger Rating System. When Contractor is notified, the revised Project Activity Levels will supersede the levels in the Project Activity Level Table below.

**PROJECT ACTIVITY LEVEL**

<table>
<thead>
<tr>
<th>Level</th>
<th>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Minimum requirements noted above in Sections 4 and 5.</td>
</tr>
<tr>
<td>B</td>
<td>1. Tank truck, trailer, or approved CAFS substitute shall be on or adjacent to the Active Landing.</td>
</tr>
</tbody>
</table>
| C     | 1. When Hot Saws or Masticators are operating, a tank truck, trailer, or approved CAFS substitute shall be within ¼ mile of these operations. Effective communications shall exist between the operator and the Active Landing.  
2. Immediately after Mechanical Operations cease, Fire patrol is required for two hours. |
| D     | 1. Immediately after Hot Saw or Masticator operations cease, Fire patrol is required for three hours.  
2. No Dead Tree felling after 1:00 PM, except recently dead.  
3. No burning, blasting, welding or cutting of metal after 1:00 PM, except by special permit. |
| Ev    | 1. The following activities may operate all day:  
a) Loading and hauling logs decked at approved landings.  
b) Loading and hauling chips stockpiled at approved landings.  
c) Servicing equipment at approved sites.  
d) Dust abatement, road maintenance (Chainsaw use prohibited), culvert installation within cleared area, chip sealing, paving, earth moving or rock aggregate stock pile loading and installation (does not include pit or quarry development).  
e) Chainsaw and log processing operations associated with loading logs or other forest products at approved landings.  
2. Hot Saws or Masticators may operate until 1:00 PM; provided that:  
a) A tractor or other equipment with a blade capable of constructing fireline is on or adjacent to the active landing or within ¼ mile of the operating equipment. This piece of equipment shall have effective communication with the Hot Saw or Masticator.  
b) Any additional restrictions specified by the Forest.  
3. All other conventional Mechanical Operations are permitted until 1:00 PM.  
4. Some operations may be permitted after 1:00 PM, on a case-by-case basis, under the terms of a PAL Ev Variance Agreement. Activities for which a Variance may be issued are:  
   • Rubber Tire Skidding  
   • Chipping on Landings  
   • Helicopter Yarding  
   • Fire Salvage  
When approved by a Line Officer, a Variance Agreement can be implemented when the criteria specified in the agreement are met and mitigation measures are in place. This approval is good for ten (10) days unless cancelled sooner or extended by the Contracting Officer for an additional ten (10) days. Variance approval can be withdrawn at the sole discretion of the Forest Service. Variance approval is contingent on the 7-day fire weather forecast, fuel conditions, site characteristics, current fire situation, state of Contractor’s equipment for prevention and suppression readiness, type of operation and social and community considerations etc. (See attached Project Activity Level Variance Agreement). |
The following activities may operate all day:

1. Loading and hauling logs decked at approved landings.
2. Loading and hauling chips stockpiled at approved landings.
3. Servicing Equipment at approved sites.
4. Dust abatement, road maintenance (chainsaw use prohibited) or loading stock piles and rock aggregate installation (does not include pit or quarry development).
5. Chainsaw operation associated with loading at approved landings.

All other activities are prohibited.

This Project utilizes “The Project Activity Level” (PAL), an industrial operation’s fire precaution system. The following Climatology Chart indicates the Historic Activity Levels for the Project Fire Danger Rating Area or Fire Weather Station utilized on this Project. This is only a historical average of the Activity Levels for the identified Fire Danger Rating Area or Weather Station.

<table>
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<th>Project Activity Level Climatology</th>
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