Fall Creek Falls Hazard Tree Felling
North Umpqua Ranger District, Umpqua National Forest
Statement of Work and Request for Quotes

Background:
The National Forest Foundation (NFF), in partnership with the U.S. Forest Service (USFS) Umpqua National Forest, is improving the safety of the popular Fall Creek Falls Trail after it was impacted by the September 2020 Archie Creek Fire. This project involves felling fire-killed trees in imminent danger of falling along the 0.9-mile Fall Creek Falls Trail, in the waterfall area, and near the parking lot, as well as logging out downed trees across the trail. Trees range in size from <10-inch diameter at breast height (DBH) to 61.5-inch DBH. Tree species include cedar, hemlock, maple, madrone, Douglas fir, and sugar pine. This project requires hiking short distances, working on steep slopes, fording a small stream, and operating safely in a recently burned area.

General Specifications
(a) Description of Work – This Request for Quotes is for services related to felling hazard trees in the Fall Creek Falls burn area, including the following:
   1. Creating access to the site by logging out trees that have fallen across the trail. As of April 23, 2021 there were 19 trees greater than 10 inches across the 0.7-mile lower trail, and 10 trees greater than 10 inches across the 0.2-mile upper trail. More trees may have fallen since that date.
   2. Felling 319 fire-killed hazard trees along the lower 0.7-mile trail and in the waterfall area, including:
      i. 254 trees less than 10-inch DBH
      ii. 42 trees between 10-inch and 20-inch DBH
      iii. 11 trees between 20-inch and 30-inch DBH
      iv. 6 trees between 30-inch and 40-inch DBH
      v. 4 trees between 40-inch and 50-inch DBH
      vi. 1 tree at 54-inch DBH
      vii. 1 tree at 61.5-inch DBH
   3. Felling 81 fire-killed hazard trees along the upper 0.2-mile trail, including:
      i. 80 trees less than 10-inch DBH
      ii. 1 tree at 14-inch DB
   4. Felling 25 fire-killed hazard trees in the parking lot area, including:
      i. 5 trees less than 10-inch DBH
      ii. 9 trees between 10-inch and 20-inch DBH
      iii. 6 trees between 20-inch and 30-inch DBH
      iv. 4 trees between 30-inch and 40-inch DBH
      v. 1 tree at 48-inch DBH
(b) **Additional Requirements and Considerations –**

1. All trees to be felled that are greater than 10-inch DBH have been flagged by the USFS and the NFF. Trees to be felled that are less than 10-inch DBH will be identified by the Contractor based on the prescription provided by the USFS and the NFF.

2. Trees felled will be left on site or repositioned to not obstruct operations. Large trees will be limbed and left on site in the longest lengths possible. Small diameter trees will be left on site and lopped and scattered to distribute woody material throughout the unit. Slash depth following treatment should not exceed one foot in depth (excluding large diameter logs in excess of 20" DBH). Pile woody material only when needed to meet fuels objectives as indicated by the USFS. USFS will conduct the burning. Chipping is an option where accessible.

3. Piles shall be located and sized in a manner that is practicable to burn with minimum damage to Forest values and any improvements. USFS will provide pile specifications.

4. All piles shall be covered with black polyethylene plastic (6 mil) thick or its equivalent as approved by USFS. Covering shall be placed on top of pile and tied down with combustible cord in a method that results in at least 80% of the pile being covered and such that the covering is secure so that the core will remain dry. Plastic and cord shall be provided by the contractor.

5. Burn piles shall not be located within 50 feet of any stream channel.

6. The Contractor shall take care to not damage the trail when felling trees and shall ensure that the trail is clear of all trees upon completion of the project.

7. Site will be closed to public access while Contractor is working.

8. The Contractor shall provide the labor, equipment and materials, supervision, quality control, and incidentals required to complete the work described. The Contractor shall perform all work in a safe and conscientious manner and follow COVID-19 protocols.

9. If this project occurs during fire season, which is likely, the contractor is required to have spark arrestors on all chainsaws, bladder bags with the crew, and to conduct fire watch as indicated in Appendix A. All State of Oregon and applicable federal fire laws shall be followed. Fire restrictions may result in limited hours of equipment operations at the work site, including the use of power tools. Contractor is responsible for providing any equipment required by the Oregon Department of Forestry. Smoking or flaming materials are not allowed on the project site or nearby areas with significant fuel loads during fire season. If large accumulations of slash vegetation are created, concentrations shall be reduced by scattering slash. See Appendix A for additional details regarding fire protection and suppression on Forest Service lands.

10. The final NEPA decision on this project has not yet been made, but in anticipation of a favorable decision, we are proceeding with this process. A contract will not be signed until the NEPA decision is signed.
(c) **Project Location** –
- Fall Creek Falls Trailhead is approximately 16 miles east of Glide, OR on Highway 138 (Latitude: 43.313061, Longitude: -122.835650).
- To facilitate work from both ends of the trail, access is also possible from the upper end (Latitude 43.319230, Longitude -122.840098). To arrive at this location:
  - Travel approximately 12 miles east on Highway 138.
  - Turn left onto Boundary Road and continue for approximately 1.6 miles.
  - Turn right onto National Forest Road 4710 and continue for approximately 2.7 miles.

(d) **Site information** –
- There is no cell service at the project site.
- Project site is within a burned area with 100% tree mortality (fire occurred in Sept. 2020).
- Variable weather – wind can pick up in the afternoon and so caution should be used in burned environment.
- Contractor must hike short distances (less than one mile), work on steep slopes, and cross a small stream.
- The project site does not include water, electrical, housing, or restroom services.

(e) **Work Schedule** – Tree felling can begin as soon as a contract is signed (likely August 2021) and must be completed by November 12, 2021. Fire season will impact daily work schedules depending on the IFPL level.

(f) **Insurance Requirements** – Upon selection of the winning bid, 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.
## Pricing Schedule

Contractor shall price work according to the schedule below.

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Mobilization <em>(includes fire watch if needed)</em></td>
<td>Lump sum</td>
<td></td>
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<tr>
<td>Log out 19 trees along lower 0.7-mile trail</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>Log out 10 trees along upper 0.2-mile trail</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>*Fell 254 trees &lt;10” DBH along lower 0.7-mile trail</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>*Fell 65 trees &gt;10” DBH along lower 0.7-mile trail</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>*Fell 80 trees &lt;10” DBH, and one 14-inch DBH tree along upper 0.2-mile trail</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>*Fell 25 trees (8-48” DBH) near parking lot</td>
<td>Lump sum</td>
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</table>

**TOTAL BID AMOUNT**

*Each tree felling line item includes slash treatment as described in Additional Requirements and Considerations*
Bid Submission

If interested in this project, please provide a quote for the above statement of work via email to asquires@nationalforests.org by 5 p.m. on August 6, 2021.

Please include with your quote:

- Completed pricing schedule,
- Total bid amount, and
- Estimated start and end date to complete the work.

This is a request for quotes 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.

Pre-bid Meeting

The National Forest Foundation and the Umpqua National Forest will host an on-site pre-bid meeting on July 27, 2021 at 9 a.m. to tour the project site and answer any questions about the scope of work. Hardhats are required for the pre-bid meeting. Attendance is required to bid on the project. Please RSVP with Audrey Squires at 541.751.5121 or asquires@nationalforests.org.

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 National Forest Foundation will notify successful and unsuccessful bidders by August 13, 2021 and will prepare a separate contract document for the successful bidder.

Evaluation Factors

- Price/cost
- Contractor capability and benefit to local community
- Timing of when contractor can begin and/or finish the project
- USFS feedback

Point of Contact

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

Audrey Squires
National Forest Foundation, Umpqua Restoration Program Coordinator
541.751.5121
asquires@nationalforests.org

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.
Appendix A – Fire Protection and Suppression: USDA Forest Service, PNW Region

1. Fire Period and Closed Season

Specific fire prevention measures are listed below and shall be effective for the period April 1 to October 31 of each year. The Forest Service may change the dates of said period by advance written notice if justified by unusual weather or other conditions. Required tools and equipment shall be kept currently in serviceable condition and immediately available for initial attack on fires.

2. Fire Plan

Before starting any operations on the project, the Contractor, Permittee, Licensee, or Purchaser, hereinafter referred to as the "Contractor," shall prepare a fire plan in cooperation with the Contracting Officer providing for the prevention and control of fires in the project area.

The Contractor shall certify compliance with fire protection and suppression requirements before beginning operations during the fire period and closed season, and shall update such certification when operations change.

3. Substitute Measures

The Contracting Officer may by written notice authorize substitute measures or equipment or may waive specific requirements during periods of low fire danger.

4. Emergency Measures

The Forest Service may require emergency measures, including the necessary shutting down of equipment or portions of operations in the project area during periods of fire emergency created by hazardous climatic conditions.

5. Fire Control

The Contractor shall, independently and in cooperation with the Forest Service, take all reasonable action to prevent and suppress fires in the project area. Independent initial action shall be prompt and shall include the use of all personnel and equipment available in the project area.

For the purpose of fighting forest fires on or in the vicinity of the project which are not caused by the Contractor's operations, the Contractor shall place employees and equipment temporarily at the disposal of the Forest Service. Any individual hired by the Forest Service will be employed in accordance with the Interagency Pay Plan for Emergency Firefighters. The Forest Service will compensate the Contractor for equipment rented at fire fighting equipment rates common in the area, or at prior agreed to rates.

6. Compliance with State Forest Laws

Listing of specific fire precautionary measures herein is not intended to relieve the Contractor in any way from compliance with the State Fire Laws covering fire prevention and suppression equipment, applicable to operations under this contract, permit or license.
7. Fire Precautions

Specific fire precautionary measures are as follows:

a. Smoking and Open Fires

Smoking and fires shall be permitted only at the option of the Contractor. The Contractor shall not allow open fires on the project area without advance permission in writing from Forest Service.

Unless restricted by State Law or Federal Regulation, smoking shall be permitted only in such portions of the project area that are free of flammable material. Smokers shall sit down to smoke in such a position that any burning material will fall within a cleared area, and shall extinguish and press out in mineral soil all burning material before leaving the cleared area.

b. Fire Extinguishers and Equipment on Trucks, Tractors, etc.

All power-driven equipment operated by the Contractor on National Forest land, except portable fire pumps, shall be equipped with one fire extinguisher having a UL rating of at least 5 BC, and one "D" handled or long handled round point shovel, size "0" or larger. In addition, each motor patrol, truck and passenger-carrying vehicle shall be equipped with a double-bit axe or Pulaski, 3-1/2 pounds or larger.

Equipment shall be kept in a serviceable condition and shall be readily available.

c. Power Saws

Each gasoline power saw operator shall be equipped with a pressurized chemical fire extinguisher of not less than 8-ounce capacity by weight, and one long-handled round point shovel, size "0" or larger. The extinguisher shall be kept in possession of the saw operator at all times. The shovel shall be accessible to the operator within 1 minute.

d. Extinguishers

One refill for each type or one extra extinguisher sufficient to replace each size extinguisher required on equipment shall be safely stored in the fire tool box or other agreed upon place on the project area that is protected and readily available.

e. Spark Arresters and Mufflers

Each internal combustion engine shall be equipped with a spark arrester meeting either (1) USDA Forest Service Standard 5100-1a, or (2) appropriate Society of Automotive Engineers (SAE) recommended practice J335(b) and J350(a) as now or hereafter amended unless it is:

(1) Equipped with a turbine-driven exhaust supercharger such as the turbocharger. There shall be no exhaust bypass.

(2) A passenger-carrying vehicle or light truck, or medium truck up to 40,000 GVW, used on roads and equipped with a factory-designed muffler complete with baffles and an exhaust system in good working condition.
(3) A heavy duty truck, such as a dump or log truck, or other vehicle used for commercial hauling, used only on roads and equipped with a factory designed muffler and with a vertical stack exhaust system extending above the cab.

Exhaust equipment described in this subsection, including spark arresters and mufflers, shall be properly installed and constantly maintained in serviceable condition.

f. Emergency Fire Precautions

The Contractor shall restrict operations in accordance with the Industrial Fire Precaution Levels listed below. The Forest Service may change the Industrial Fire Precaution Levels to other values upon revision of the National Fire Danger Rating System and may change the specific Industrial Fire Precaution Levels when such changes are necessary for the protection of the National Forest. When sent to the Contractor, the revised Industrial Fire Precaution Levels will supersede the attached levels.

INDUSTRIAL FIRE PRECAUTIONS SCHEDULE

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>INDUSTRIAL FIRE PRECAUTION (IFPL)</th>
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<tbody>
<tr>
<td>I.</td>
<td>Closed season - Fire precaution requirements are in effect. A fire watch/security is required at this and all higher levels unless otherwise waived.</td>
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<tr>
<td>II.</td>
<td>Partial hootowl - The following may operate only between the hours of 8 p.m. and 1 p.m., local time:</td>
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<td></td>
<td>a. power saws, except at loading sites;</td>
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<td>b. cable yarding;</td>
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<td></td>
<td>c. blasting;</td>
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<td></td>
<td>d. welding or cutting of metal.</td>
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<tr>
<td>III.</td>
<td>Partial shutdown - The following shall be prohibited except as indicated:</td>
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<td>Cable yarding - except that gravity operated logging systems employing non-motorized carriages may be operated between the hours of 8 p.m. and 1 p.m., local time, when all block and moving lines, except the line between the carriage and the chokers, are suspended 10 feet above the ground;</td>
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<tr>
<td></td>
<td>Power saws - except power saws may be used at loading sites and on tractor/skidder operations between the hours of 8 p.m. and 1 p.m., local time.</td>
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<td></td>
<td>In addition, the following are permitted between the hours of 8 p.m. and 1 p.m., local time:</td>
</tr>
<tr>
<td></td>
<td>a. tractor/skidder operations;</td>
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<td></td>
<td>b. mechanized loading and hauling of any product or material;</td>
</tr>
<tr>
<td></td>
<td>c. blasting;</td>
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<td></td>
<td>d. welding or cutting of metal;</td>
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<td></td>
<td>e. any other spark-emitting operation not specifically mentioned.</td>
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<td>IV.</td>
<td>General shutdown - All operations are prohibited.</td>
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The following definitions shall apply to these Industrial Fire Precaution Levels:

_Cable yarding systems_: A yarding system employing cables and winches in a fixed position.

_Closed season (Fire Precautionary Period)_: That season of the year when a fire hazard exists as declared by the responsible agency official.

_Contracting Officer_: The person executing the contract, permit or license on behalf of the Government and includes that person's designated representative, acting within the limits of their authority or the duly appointed successor to the individuals.

_Loadings sites/woods site/project area_: A place where any product or material (including but not limited to logs, firewood, slash, soil, rock, poles, posts, etc.) is placed in or upon a truck or other vehicle.

_Low hazard area_: Means any area where the responsible agency representative (WDNR, ORF, BIA, BLM) determines the combination of elements reduces the probability of fire starting and/or spreading.

_Tractor/skidder operations_: include a harvesting operation, or portion of a harvesting operation, where tractors, skidders, or other harvesting equipment capable of constructing fire line, are actively yarding forest products and can quickly reach and effectively attack a fire start.

Waivers, written in advance, may be used for any and all activities. Activities for which waivers may be issued include, but are not limited to:

a. mechanized loading and hauling;
b. road maintenance such as sprinkling, graveling, grading and paving;
c. cable yarding using gravity systems or suspended lines and blocks, or other yarding systems where extra prevention measures will significantly reduce the risk of fire;
d. powers saws at loading sites or in felling and bucking where extra prevention measures will significantly reduce the risk of fire;
e. maintenance of equipment (other than metal cutting and welding) or improvements such as structures, fences and powerlines.

Such waiver, or substitute precautions will prescribe measures to be taken by the Contractor to reduce the risk of ignition, and/or the spread of fire. The Contracting Officer shall consider site specific weather factors, fuel conditions, and specific operations that result in less risk of fire ignition and/or spread than contemplated when precaution level was predicted. Consideration shall also be given to measures that reduce the precaution levels above. The Contractor shall assure that all conditions of such waivers or substitute precautions are met.

The Contractor shall obtain the predicted Industrial Fire Precaution Level daily, prior to the start of work, from the appropriate Ranger District headquarters. If predictions made after 6:00 p.m., local time, are significantly different than the original prediction, the Forest Service will inform the Contractor when changes in restrictions or industrial precautions are made.
8. Fire Tools
The Contractor shall furnish serviceable firefighting tools in a readily accessible fire tool box or compartment of sound construction with a hinged lid and hasp so arranged that the box can be secured or sealed. The box shall be red and marked “Fire Tools” in letters one inch high. It shall contain a minimum of:

   a. 2 axes or Pulaskis with a 32-inch handle;
   b. 3 adze eye hoes. One Pulaski may be substituted for 1 adze eye hoe;
   c. 3 long-handled, round point shovels, size “0” or larger.

9. Fire Security

When the Industrial Fire Precautions Level is “I” or higher, unless a waiver is granted, the Contractor shall designate a person who shall perform fire security services listed below on the project area and vicinity. The designated person shall be capable of operating the Contractor’s communications and fire fighting equipment specified in the contract, excluding helicopters, and of directing the activities of the Contractor’s personnel on forest fires. In lieu of having the designated person perform the required supervisory duties, the Contractor may provide another person meeting the qualifications stated above to direct the activities of Contractor’s personnel and equipment during all fire fighting activities.

Services described shall be for at least 1 hour from the time the Contractor’s operations are shut down. For the purposes of this provision, personnel servicing equipment, and their vehicles, who are not engaged in cutting or welding metal are excluded.

Fire security services shall consist of moving throughout the operation area or areas constantly looking, reporting, and taking suppression action on any fires detected. Where possible, the designated person shall observe inaccessible portions of helicopter operating areas from vantage points within or adjacent to project area.

10. Blasting

Whenever the Industrial Fire Precaution Level is “II” or greater, a fire security person, equipped with a long-handled, round point, No. “0” or larger, shovel, and a five-gallon backpack pump can filled with water will stay at location of blast for 1 hour after blasting is done. Blasting may be suspended by Forest Service in writing, in an area of high rate of spread and resistance to control.

Fuses shall not be used for blasting. Explosive cords shall not be used without written permission of Forest Service, which may specify conditions under which such explosives may be used and precautions to be taken.
Additional Fire Precautionary Measure 1 - Tank Truck

11. The Contractor shall provide a tank truck or trailer, containing not less that 300 gallons of water, during yarding, loading, land clearing, right-of-way clearing and mechanical treatment of slash. A tank truck or trailer will not be required if powersaw falling and bucking is the only operation. Such tank truck or trailer shall be maintained in a serviceable condition and located within 10 minutes, round trip, from each project area during fire period and closed season.

The tank truck or trailer shall be equipped with a pump capable of discharging 20 gallons or water per minute, using a 1/4 inch nozzle tip, through a 50 foot length of rubber lined hose. In addition, 500 feet of serviceable fabric jacket rubber lined hose of not less than 1 inch outside diameter, fitted with a nozzle capable of discharging a straight stream of 1/4 inch diameter and a spray pattern shall be immediately available for use. The tank, pump and atleast 250 feet of hose and nozzle shall be connected and ready for use at all times.

If a trailer is used, it shall be equipped with a hitch to facilitate prompt movement. A serviceable tow vehicle shall be immediately available for attachment to the trailer and must meet the time requirement stated above. Such truck or trailer shall be equipped to operate for a minimum of 8 hours. Tank truck or trailer shall be available from the start of work to the end of the Fire Watch/Fire Security service.

Additional Fire Precautionary Measure 2- Communications

12. The Contractor shall provide adequate two-way communication facilities to report a fire to Forest Service within 15 minutes of detection. FCC Regulations prohibit commercial use of Citizen Bank (CB) radio. (CB's are not considered adequate two-way communications.)

Such communications shall be operable during periods of operation of power-driven equipment, including the time fire security is required.