

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

TIMBER SALE CONTRACT
(Applicable to Sales to be Scaled after Felling)

Name of Purchaser

| | | | |
|----------------------------------|---------------------------------------|---------------------------------|---------------------------------------|
| National Forest Tahoe | Ranger District Sierraville | Region Pacific S-West | Contract Number |
| Sale Name Brumby 2 SBA | | Award Date | Termination Date 11/30/2022 |

The parties to this contract are The United States of America, acting through the Forest Service, United States Department of Agriculture, hereinafter called Forest Service, and _____ hereinafter called Purchaser.

Forest Service having advertised a sale at which either (1) Purchaser, whose required bid deposit is now held by Forest Service as an initial deposit, was the successful bidder, or (2) no bids were received and Purchaser having subsequently offered at least the minimum advertised price and made an initial deposit in the same amount as the bid deposit specified in the sale advertisement; and the parties hereto desiring to record their agreement; now therefore,

Unless provided otherwise herein, Forest Service agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

This contract consists of three Divisions: A - Specific Conditions, B - Standard Provisions, and C - Special Provisions, together with Sale Area Map, Plans and specifications for developments (if any), and such attachments as may be provided for in Division C. Specific Conditions are numbered and apply to the Part, Section, Subsection, or Item of the Standard Provisions, as indicated hereunder. Other conditions of this contract are stated in Division C - Special Provisions.

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the award date.

UNITED STATES OF AMERICA

Two Witnesses: 1/

(Name)

(Address)

(Name)

(Address)

By: _____
Contracting Officer

(Title)

(Purchaser) 2/

By: _____

(Title)

(Business Address)

I, ^{3/} _____, certify that I am the _____ Secretary of the corporation named as Purchaser herein; that _____ who signed this contract on behalf of Purchaser, was then _____ of the corporation; that the contract was duly signed for and in behalf of the corporation by authority of its governing body, and is within the scope of its corporate powers.

CORPORATE SEAL 4/

INSTRUCTIONS:

- 1/ The signatures and addresses of two witnesses are required if Purchaser is other than a corporation.
- 2/ If Purchaser is a co-partnership, the signatures should be: XYZ Company, by John Doe, a member of the firm. If Purchaser is a corporation, form of signature should be: XYZ Company, by John Doe, President (or other officer or agent) and the seal of the corporation must be impressed or indicated.
- 3/ The certificate must be completed if Purchaser is a corporation.
- 4/ If the corporation has no corporate seal that fact shall be stated, in which case a scroll or adhesive seal shall follow the corporate name.

| EXAMPLE 1/ | |
|---|-------------------------------|
| <p><u>Subcontractor Certification</u> <u>Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion</u></p> | |
| <p>Timber Sale Name: _____ National Forest: _____</p> | |
| <p>The prospective subcontractor (participants in lower tier covered transactions) certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this timber sale by any Federal department or agency.</p> | |
| <p>Where the prospective subcontractor is unable to certify to any of the statements in this certification, such prospective subcontractor shall attach an explanation to this proposal.</p> | |
| <p>Name of Subcontractor: _____ Business Address: _____ _____</p> | |
| <p>_____</p> <p>Date</p> | <p>_____</p> <p>Signature</p> |
| <p>1/ It is the Purchaser's responsibility to have subcontractors complete this certification and to maintain a file of completed certifications. This certification does not need to be returned to the Forest Service, except at the written request of the Contracting Officer.</p> | |

The following conditions apply to the indicated portions of Division B - Standard Provisions issued June 2006.

A1 - Location and Area, applicable to B1.1

This Sale Area of 277 acres more or less is located in:
 portion of Section 25, T.21N., R.13E. and portions of Sections 19 and 30, T.21N., R.14E., MDM.

A2 - Volume Estimate and Utilization Standards, applicable to B2.1, B2.2, B2.4, and B6.4

| Species | Product | Estimated Quantity | Unit of Measure | Minimum Specifications | | | | |
|---|------------|--------------------|-----------------|--|-----------------------------------|------------------------------|--|-------------------|
| | | | | Merchantable Tree | | Piece Required to be Removed | | |
| | | | | Diameter Breast High (d.b.h.) (inches) | Number of Minimum Pieces per Tree | Length (feet) | Diameter Inside Bark at Small End (inches) | Net Merch. Factor |
| Combined Softwood | Sawtimber | 5,479.00 | Ton | 10.0 | 1 | 10 | 6.0 | 12 |
| Timber Subject to Agreement under C2.11# | | | | | | | | |
| Combined Softwood | Grn Bio Cv | unestimated | Ton | 4.0 | 1 | 6 | 1.0 | 16 |
| Total Quantity | | 5,479.00 | Ton | | | | | |

A3- Timber Designations, applicable to B2.3; acres are approximate:

| | <u>Number</u> | <u>Acres</u> |
|------------------------------------|---------------|--------------|
| Clearcutting Units (B2.31) | | |
| Specified Road Clearing (B2.32) | | |
| Overstory Removal Units (B2.33) | | |
| Understory Removal Units (B2.34) | | |
| Individual Trees (B2.35) | | 167.6 |
| Incompletely Marked Timber (B2.36) | | |

A4 - Timber Payment Rates, applicable to B3.1 and B4.0

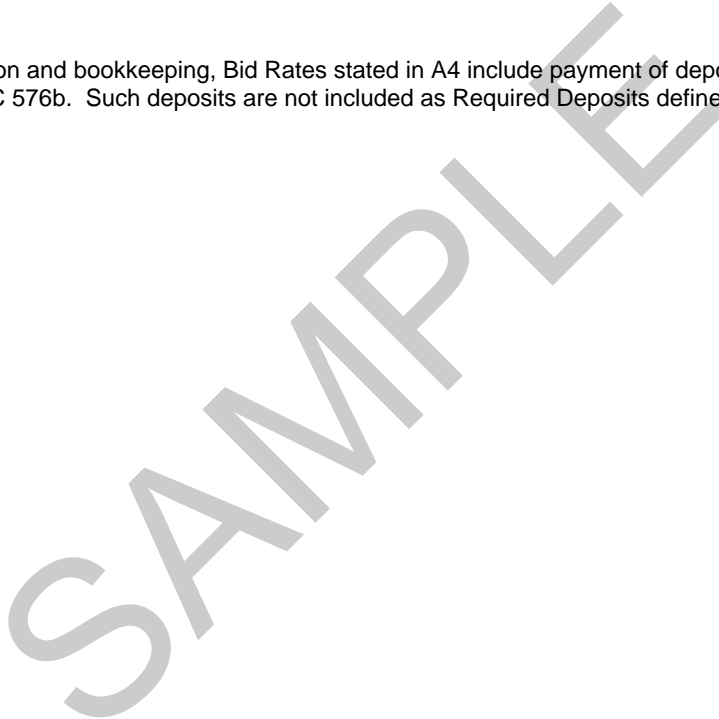
A4a - For Species and Products to be Paid for at Rates Escalated under B3.2

Not Applicable

A4b - For Species and Products to be Paid for at Flat Rates

| Species | Product | Unit of Measure | Rates per Unit of Measure | | | | Required Deposits Slash Disposal \$ |
|---|------------|-----------------|---------------------------|---------------|----------------|---------------|-------------------------------------|
| | | | Base \$ | Advertised \$ | Bid Premium \$ | Bid (Flat) \$ | |
| Combined Softwood | Sawtimber | Ton | 1.10 | 22.80 | | | 2.22 |
| Timber Subject to Agreement under C2.11# | | | | | | | |
| Combined Softwood | Grn Bio Cv | Ton | .10 | .10 | | | .00 |

For purposes of convenience in collection and bookkeeping, Bid Rates stated in A4 include payment of deposits for sale area betterment required pursuant to 16 USC 576b. Such deposits are not included as Required Deposits defined hereunder.



The following definitions are established for the terms used in A4:

Base Rates are the lowest rates of payment for timber that are authorized by this contract. Base Rates remain constant throughout the life of this contract and are not subject to change by rate redetermination, except for reduction under B3.31, B3.32, or B3.33.

Advertised Rates are the minimum acceptable Bid Rates for timber, exclusive of Required Deposits. These rates are those indicated by appraisal, with a cost allowance made for construction of Specified Roads listed in A7, but are never less than Base Rates.

Bid Premium Rates are the amounts by which Purchaser's bid is in excess of Advertised Rates. The Bid Premium Rates are constant during this contract, except as provided in B3.31, B3.32, and B3.33.

Bid Rates are the rates bid by Purchaser (exclusive of Required Deposits for slash disposal, road maintenance, and contract scaling) and are the sum of Advertised Rates and Bid Premium Rates. Until a rate redetermination becomes effective, the Bid Rate for species and products in A4a is the Tentative Rate that is subject to quarterly adjustment under B3.2; for species and products in A4b, the Bid Rate is the Flat Rate.

Required Deposits are deposits that Purchaser may be required to pay for slash disposal (16 USC 490), road maintenance (16 USC 537), and contract scaling (1994 Appropriations Act). Required Deposits may be adjusted as part of a rate redetermination or a Contract Term Extension. The table shows only Required Deposits for slash disposal; road maintenance deposits, if any, are given in C5.32#; and contract scaling deposits, if any, are given in C6.816#.

Base Index is the specified average of the lumber or other product selling value index used as the basis for computing adjustment in rates for variance in product selling value, as provided in B3.2.

A5 - Indices Used in Quarterly Adjustment, applicable to B3.2

Not Applicable

A6 - High Stumps, applicable to B6.412

| Species | Product | Maximum Stump Height * (inches) |
|-------------------|-----------|---------------------------------|
| Combined Softwood | Sawtimber | 6 |

* Minimum 3 inch stump height for all trees. Maximum 12 inch stump height for handfelled trees.

A7 - Specified Roads, applicable to B5.2

Name and Date of Governing Road Specifications:

| Project | | Design Class | Approx. Length (mi./km.) | Sheet Numbers and Approval Date | Performance Responsibility | | |
|-----------------------|------|--------------|--------------------------|---------------------------------|----------------------------|--------|-------------------------|
| Road No. | Name | | | | Survey | Design | Construction Staking 1/ |
| NOT APPLICABLE | | | | | | | |

1/ Indicate timing, i.e., before clearing (BC) or after clearing (AC). Applicable to B5.212.

A8 - Forest Service Engineering Completion Schedule, applicable to B5.21

| Road No. | Road Name | Type of Work | Completion Date |
|-----------------------|-----------|--------------|-----------------|
| NOT APPLICABLE | | | |

A9 - Scaling Instructions and Specifications, applicable to B6.8

Name and Date of Governing Instructions: National Forest Cubic Scaling Handbook, FSH 2409.11a. as amended. Cubic Taper 4 as authorized by Regional Forester, February 2001.

| Scaling Specifications | | | | | |
|--------------------------|------------------|-------------------------------|-------------------------|---------------------|-------------------------|
| Species | Product | Maximum Scaling Length (feet) | Trim Allowance | | |
| | | | Diameter Range (inches) | Length Range (feet) | Trim Allowance (inches) |
| <i>Combined Softwood</i> | <i>Sawtimber</i> | 20 | ALL | ALL | 6 |

A10 - Scaling Services, applicable to B6.81

| Species | Product | Unit of Measure | Site and Geographic Location | Method | Standard Estimated Cost per Unit \$ |
|-------------------|-----------|-----------------|--|------------------------------|-------------------------------------|
| Combined Softwood | Sawtimber | Ton | Intersection of Hwy. 89 and 08-15 Road | Total (100%) Weight Scale | .00 |

A11 - Minimum Scaling Volumes, applicable to B6.81

Minimum volume for Continuous Scaling Services in two-week period N/A Ton per scaler

Minimum volume for Intermittent Scaling Services N/A Ton on a N/A basis

A12 - Fire Precautionary Period, applicable to B7.2

April 01 to December 31, inclusive

A13 - Purchaser Responsibility to Furnish Crews and Equipment for:

Initial Fire Suppression, applicable to B7.3

Within 25 road miles

Fire Suppression Reinforcement, applicable to B7.312 and B 7.313

Within 100 road miles

A14 - Purchaser's Obligation per Operations Fire, applicable to B7.41

Maximum Amount: \$ \$29,400.00

A15 - Termination Date, applicable to B8.2

November 30, 2022

A16 - Normal Operating Season, applicable to B6.31, B6.66, B8.21 and B9.3

First Period: June 01 to October 15, inclusive

Second Period: _____ to _____, inclusive

A17 - Performance Bond Amount, applicable to B9.1

A18 - Downpayment, applicable to B4.211

Downpayment Amount: _____

A19 - Periodic Payment Amount, applicable to B4.213

| | <u>Periodic Payment Determination Date</u> | <u>Amount</u> |
|--|--|---------------|
|--|--|---------------|

Initial Payment: _____

Additional Payment: _____

A20 - Market-Related Contract Term Addition Producer Price Index, applicable to B8.212

Index Name: Softwood Lumber Index Number: 0811

A21 - Inapplicable Standard Provisions

The following listed Sections, Subsections, or Items of Division B-Standard Provisions - are hereby made inapplicable. (Instructions: List by reference number and title.)

| | |
|--------|--|
| B4.211 | DOWNPAYMENT |
| B4.4 | PAYMENTS NOT RECEIVED |
| B8.212 | MARKET-RELATED CONTRACT TERM ADDITION |
| B8.64 | DEBARMENT AND SUSPENSION CERTIFICATION |

A22 - List of Special Provisions

The following listed special provisions are attached to and made a part of this contract as Division C. Provisions with reference numbers followed by # contain blanks into which data have been entered for this sale. (Instructions: List by reference number, title, and date.)

| | |
|-------------------|---|
| C2.11# | TIMBER SUBJECT TO AGREEMENT (02/1971) |
| C2.3# | RESERVE TREES (04/2004) |
| C2.35# | DESIGNATION OF TIMBER, CUTTING UNIT BOUNDARIES, AND SUBDIVISION/PAYMENT UNIT BOUNDARIES (06/2012) |
| C4.211 | DOWNPAYMENT (06/2007) |
| C4.212 | TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009) |
| C4.4 | PAYMENTS NOT RECEIVED (08/2012) |
| C5.12# | USE OF ROADS BY PURCHASER (06/1999) |
| C5.31# | ROAD MAINTENANCE REQUIREMENTS (07/2001) |
| C5.32# | ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012) |
| C5.35# | ROAD AND WATER SUPPLY USE (05/2008) |
| C6.24# | SITE SPECIFIC PROTECTION MEASURES (04/2004) |
| C6.315# | SALE OPERATIONS SCHEDULE (08/2006) |
| C6.32# | PROTECTION OF RESERVE TREES (04/2004) |
| C6.331 | LOG TRUCKING (08/2006) |
| C6.37 | SUBSTITUTE METHODS (08/2006) |
| C6.41# | FELLING, BUCKING, AND LIMBING (08/2007) |
| C6.42# | GROUND BASED SKIDDING (08/2006) |
| C6.5 | STREAMCOURSE PROTECTION (08/2006) |
| C6.6# | EROSION PREVENTION AND CONTROL (05/2008) |
| C6.7# | SLASH TREATMENT (08/2006) |
| C6.849 | PRODUCT ACCOUNTABILITY (08/2006) |
| C7.2# | SPECIFIED FIRE PRECAUTIONS (06/2012) |
| C7.22# | EMERGENCY PRECAUTIONS (06/2012) |
| C8.212 | MARKET-RELATED CONTRACT TERM ADDITION (11/2008) |
| C8.4 | PERFORMANCE BY OTHER THAN PURCHASER (04/2004) |
| C8.64 | DEBARMENT AND SUSPENSION CERTIFICATION (03/2018) |
| C8.66# (Option 1) | USE OF TIMBER (04/2004) |
| C8.73 | REQUIREMENT FOR SMALL BUSINESS PROCESSING (04/2004) |

C2.11# - TIMBER SUBJECT TO AGREEMENT (02/1971)

In addition, there is within Sale Area an unestimated quantity of:

| Species | Product |
|-------------------|------------|
| Combined Softwood | Grn Bio Cv |

that shall be Included Timber upon written agreement.

C2.3# - RESERVE TREES (04/2004)

Notwithstanding the designations for cutting under B2.31, B2.32, B2.33, or B2.34, live or dead Rust Resistant or Candidate Rust Resistant Sugar Pine reserve trees or groups of reserve trees within such cutting units or clearings shall be left uncut. Reserve trees are identified by RED PAINT BANDED AT DBH AND/OR SILVER TAGS and shall be protected in accordance with C6.32#. Units with reserve trees are shown on Sale Area Map.

C2.35# - DESIGNATION OF TIMBER, CUTTING UNIT BOUNDARIES, AND SUBDIVISION/PAYMENT UNIT BOUNDARIES (06/2012)

Trees are designated for cutting under B2.35 only if designated as shown in the Timber Designation table below. The boundaries of Subdivisions/Payment Units and Cutting Units are designated as shown in the Boundary Designation table below. Trees used for boundary designation are not to be cut.

SPECIFICATIONS PURSUANT TO C2.35# - DESIGNATION OF TIMBER. CUTTING UNIT BOUNDARIES, AND SUBDIVISION/PAYMENT UNIT BOUNDARIES

SPECIFICATIONS PURSUANT TO C2.35# - DESIGNATION OF TIMBER, CUTTING UNIT BOUNDARIES, AND SUBDIVISION/PAYMENT UNIT BOUNDARIES

Timber Designation Table

| Subdivision | Tree Paint Color | Designation or Specification |
|--|------------------|---|
| ALL | BLUE | <u>Hazard Tree</u> . Notwithstanding B2.32 all dead and unstable live trees which are leaning towards a road or are otherwise hazardous to a road, and are sufficiently tall to reach Purchaser's landings or the roadbed of National Forest System roads within Sale Area, shall be felled by Purchaser when Marked in the specified paint color above and below stump height by Forest Service in advance of felling any other timber in the vicinity. Pieces meeting Utilization Standards from such dead and unstable live trees shall be removed unless Purchaser is notified in writing that removal would cause unacceptable damage to areas requiring special protection such as residual timber, roads, administrative sites, streamside management zones, and areas identified on Sale Area Map or on the ground. |
| Thinning: 10, 11, 12, 13, 14, and 20. | BLUE | <u>Individual Tree Mark</u> . Individual trees are designated for cutting only if Marked above and below stump height with the specified paint color. |
| N/A | N/A | <u>Leave Tree Mark</u> . All live <N/A> are designated for cutting unless Marked as leave trees. Leave trees are Marked above and below stump height with the specified paint color. Sale Area Map indicates areas plainly identified on the ground where leave trees are Marked to be left uncut. |
| ALL | WHITE | <u>Wildlife Trees</u> . Notwithstanding the designation for cutting under B2.31, B2.33, B2.34, or B2.35, trees which are identified by standard Forest Service metal wildlife tree sign or painted with the specified paint color on the uphill and downhill side, shall be left uncut. In event such trees are destroyed in Purchaser's Operations, Forest Service may designate alternate trees to be saved. |
| ALL | BLACK | <u>Marked Out Trees</u> . When it is necessary to delete previously marked trees, a unique tree marking paint color will be Marked over or adjacent to the original mark, but will not obscure the original marking. Trees Marked with the original marking paint color and the unique tree marking paint color are not Included Timber. |

Subdivision/Payment Unit and Cutting Unit Boundary Designation Table

| <u>Subdivision/Payment Unit</u> | <u>Boundary Paint Color</u> | <u>Boundary Designation</u> |
|---------------------------------|-----------------------------|---|
| ALL | ORANGE | <p>- Subdivision boundaries, as shown on Sale Area Map, are designated at eye level with two (2) ORANGE tags facing into the interior, two (2) ORANGE tags facing along the subdivision boundary, and an ORANGE paint spot at ground level.</p> <p>- ORANGE boundary posters with sale name and Subdivisions are stapled to boundary trees and face outward at locations where the Subdivision boundary intersects or coincides with roads.</p> |

C4.211 - DOWNPAYMENT (06/2007)

The downpayment amount shown in A18 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to B9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale has been charged and paid for, or (b) the estimated value of the unscaled timber is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value of the unscaled timber is equal to or less than the amount of the downpayment.

If Forest Service makes a determination that this contract should not have been included under increased downpayment requirements (36 CFR 223.49(e)), the downpayment shall be revised and applied in accordance with 36 CFR 223.49(f).

C4.212 - TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)

Notwithstanding B4.211 or C4.211, upon the Purchaser's written request Forest Service may temporarily reduce the downpayment when Purchaser's scheduled operations are delayed or interrupted for 30 or more consecutive days, or the contract term is extended for 30 or more consecutive days for any of the following reasons:

- (1) Forest Service requests or orders Purchaser to delay or interrupt operations for reasons other than breach;
- (2) Purchaser interrupts or delays scheduled operations to work on a sale designated by the Forest Service as in urgent need of harvesting; or
- (3) An adjustment of the contract term authorized upon a determination of substantial overriding public interest, including a market-related contract term addition, or an urgent removal contract term extension under 36 CFR 223.53.

When Purchaser is not cutting or removing timber under contract during a qualifying period of delay, interruption, or extension listed above the downpayment may be reduced to \$1000 or 2 percent of the downpayment amount stated in the contract, whichever is greater. The Purchaser must restore the downpayment to the full amount stated in the contract within 15 days from receipt of the bill for collection and written notice from the Contracting Officer that the basis for temporarily reducing the downpayment no longer exists. Purchaser shall not cut or remove timber on a contract where the downpayment has been temporarily reduced until the downpayment amount stated in the contract is fully restored.

C4.4 - PAYMENTS NOT RECEIVED (08/2012)

(a) Payments are due and payable on the date of issue indicated on the bill for collection. When a payment for timber cut and other charges is not received at the location designated by Forest Service by the date specified in the bill for collection for, Contracting Officer will suspend all or any part of Purchaser's Operations until payment or acceptable payment guarantee is received. Other charges include, but are not limited to:

- (i) Slash disposal, road maintenance, and contract Scaling deposits;
- (ii) Cooperative work at rates established by specific agreement under B4.218;
- (iii) Damages pursuant to B9.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to B4.22;
- (vi) Periodic payments pursuant to B4.213;
- (vii) Extension Deposits pursuant to B4.217; and
- (viii) Other mandatory deposits.

(b) Failure to pay amounts due by the date specified in the bill for collection shall be considered a breach under B9.3. The 30-day notice period prescribed therein shall begin to run as of the end of business on the date specified for receipt of payments. If the performance or payment is guaranteed by surety bond, the surety will receive a copy of the written notification of breach. Demand will be made on the surety or other institution providing the guarantee or bond instrument for immediate payment 10 days after issuance of written notification of the breach.

(c) Pursuant to the Debt Collection Improvement Act of 1996, as amended, if payment is not received by Forest Service within 15 days after the date of issue indicated on the bill for collection:

- (i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.
- (ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.
- (iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c)(i) and (c)(ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c)(i) and (c)(ii).

(iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

(d) Forest Service remedies for Purchaser's failure to make payment for timber cut and other charges when due, except for accrual of interest, suspension of all or any part of Purchaser's Operations, and administrative offset, shall be stayed for so long as:

- (i) A bona fide dispute exists as to Purchaser's obligation to make such payment and
- (ii) Purchaser files and prosecutes a timely Claim.

C5.12# - USE OF ROADS BY PURCHASER (06/1999)

Purchaser's use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

| Code | Use Limitations |
|------|---|
| X | Hauling prohibited |
| R | Hauling restricted |
| U | Unsuitable for hauling prior to completion of agreed reconstruction |
| P | Use prohibited |
| A | Public use restriction |
| W | Regulation waiver |

Roads coded A will be signed by the Forest Service to inform the public of use restrictions. Purchaser's use of roads coded R, A, or W shall be in accordance with the following restrictions:

See Restricted Road List Table.

SAMPLE

SPECIFICATIONS PURSUANT TO C5.12# - USE OF ROADS BY PURCHASER (06/1999)**Restricted Road List**

| Road Number | Road Name | Termini | | Map Legend | Description of Restrictions |
|-------------|-----------|---------|-----|------------|---|
| | | From | To | | |
| 52-15-05 | N/A | 52-15 | End | P | Use of Road Prohibited (Due to erosion control and sensitive soil concerns) |

SAMPLE

C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

See Contract Road Maintenance Requirements Summary Table.

SAMPLE

SPECIFICATIONS PURSUANT TO C5.31# – ROAD MAINTENANCE REQUIREMENTS. (7/01)

Contract Road Maintenance Requirements Summary

| Road | Termini | | Miles | Applicable Prehaul Road Maintenance Specifications | | | | | | | | | |
|----------|---------------|------------|-------|--|------|------|------|------|------|------|------|------|------|
| | From | To | | T801 | T802 | T803 | T804 | T805 | T806 | T807 | T809 | T810 | T811 |
| 52 | 52-15 Road | SR 49 | 0.85 | | P | P | | P | | P | | | |
| 52-15 | Unit 14 | 52 Road | 1.06 | | P | P | | P | | P | | P | |
| 89-95 | 89-95-17 Road | SR 89 | 0.84 | | P | P | | P | | P | | | |
| 89-95-17 | Unit 20 | 89-95 Road | 0.99 | | | P | | P | | P | P | P | |

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

| Road | Termini | | Miles | Applicable During Haul Road Maintenance Specifications | | | | | | | | | |
|----------|---------------|------------|-------|--|------|------|------|------|------|------|------|------|------|
| | From | To | | T801 | T802 | T803 | T804 | T805 | T806 | T807 | T809 | T810 | T811 |
| 52 | 52-15 Road | SR 49 | 0.86 | | P | P | | P | P | P | | | |
| 52-15 | Unit 14 | 52 Road | 1.07 | | P | P | | P | P | P | | | |
| 89-95 | 89-95-17 Road | SR 89 | 0.85 | | P | P | | P | P | P | | | |
| 89-95-17 | Unit 20 | 89-95 Road | 0.97 | | | P | | P | P | P | | | |

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

| Road | Termini | | Miles | Applicable Post Haul Road Maintenance Specifications | | | | | | | | | |
|----------|---------------|------------|-------|--|------|------|------|------|------|------|------|------|------|
| | From | To | | T801 | T802 | T803 | T804 | T805 | T806 | T807 | T809 | T810 | T811 |
| 52 | 52-15 Road | SR 49 | 0.85 | | P | P | | P | | | | | |
| 52-15 | Unit 14 | 52 Road | 1.06 | | P | P | | P | | | | P | |
| 89-95 | 89-95-17 Road | SR 89 | 0.84 | | P | P | | P | | | | | |
| 89-95-17 | Unit 20 | 89-95 Road | 0.99 | | | P | | P | | | P | P | |

P = Purchaser Performance Item D = Deposit to Forest Service D3 = Deposit to Third Party

C5.32# - ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012)

Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in C5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If Purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance are \$.15 per Ton for recurrent maintenance, and \$.01 per Ton for deferred maintenance.

The following table lists who Purchaser will make deposits for road maintenance to, and the rate per unit of measure of the deposit. The Road Maintenance Agreement is available for inspection at the Forest Supervisor's office.

| Deposit Made To | Rate | Unit of Measure |
|-----------------|------|-----------------|
|-----------------|------|-----------------|

N/A

C5.35# - ROAD AND WATER SUPPLY USE (05/2008)

National Forest water supply locations, access, method of filling trucks, period of water availability and procedures designed to maintain water quality at each location shall be agreed in advance of use. Such use shall at no time reduce water supplies to the level that further use may be detrimental to aquatic resources or other established use. Waterholes and other improvements relating to said water supplies shall be put into condition, prior to expected seasonal periods of precipitation or runoff, to avoid resource damage.

Damage to resources at such locations caused by Purchaser's Operations, other than fire suppression activities, shall be repaired by Purchaser in a timely and agreed manner to the extent practicable to restore and prevent further resource damage.

Unless otherwise agreed, Purchaser's use of roads and other water supply requirements shall conform to the following table.

See Table A

SPECIFICATIONS PURSUANT TO C5.35# - REQUIREMENTS OF ROAD AND WATER SUPPLY USE

| <p>Load Limitations</p> | <p>Purchaser shall notify Forest Service in writing of the planned size and load distribution for equipment which exceeds the State of California Vehicle Code legal size and weight, and the National Forest System roads to be used. Such notice may be part of plan of operation under B6.311. Within 15 days after receipt of the written notice Forest Service shall notify Purchaser in writing of any regulations or restrictions that may be needed to protect National Forest Transportation Facilities.</p> <p>A written permit shall be required for moving any vehicle which is in excess of the established legal size and weight which is not listed in the above plan, except as may be authorized in prior written agreements.</p> | | | | | | | | | | | | | | | | | | | | |
|--|---|-----------|-----------------|-----------------|------------|-----------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>Existing Non-National Forest System Roads</p> | <p>Roads not shown on Sale Area Map may be used as Temporary Roads if there is agreement before use is started.</p> | | | | | | | | | | | | | | | | | | | | |
| <p>Snow Removal</p> | <p>If Purchaser removes snow from roads, such work shall be done with Forest Service approval and in a manner that will protect roads and adjacent resources.</p> <p>Snow berms shall be removed or placed to avoid accumulation of melt water on the road and prevent water concentration on erosive slopes or soils.</p> <p>Snow must not be removed to the road surface. A minimum 6.0 inch snow depth must be left to protect the roadway. If the road surface is damaged, Purchaser shall replace lost surface material and repair structures damaged in blading operations prior to hauling, unless climatic conditions prevent necessary work from being accomplished or as otherwise agreed in writing.</p> <p>Single lane roads shall be plowed full width including turnouts. In event double lane roads are not plowed to full width, warning signs shall be required and plowing shall be no less than single lane (12 feet) with intervisible turnouts.</p> | | | | | | | | | | | | | | | | | | | | |
| <p>Water Supply Deposits</p> | <p>If Purchaser utilizes the water site located N/A, for any listed activity, Purchaser shall make deposit with Forest Service for that activity at the time and in the amount shown in the Water Supply Deposit Schedule table below.</p> <p style="text-align: center;">WATER SUPPLY DEPOSIT SCHEDULE</p> <table border="1" data-bbox="418 1562 1429 1785"> <thead> <tr> <th>Activity</th> <th>Unit of Payment</th> <th>Unit Cost</th> <th>Total Cost</th> <th>Time of Payment</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Activity | Unit of Payment | Unit Cost | Total Cost | Time of Payment | N/A | | | | | | | | | | | | | | |
| Activity | Unit of Payment | Unit Cost | Total Cost | Time of Payment | | | | | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

SPECIFICATIONS PURSUANT TO C5.35# - REQUIREMENTS OF ROAD AND WATER SUPPLY USE

| <p>Surface Replacement Deposits</p> | <p>Purchaser shall make Required Deposits for deferred surface replacement (16 U.S.C. 537) for use of existing surfaced roads. If applicable, such deposits shall be based upon the volume and distance hauled on the roads and at the applicable rates listed in the table below titled Surface Replacement Deposit Schedule. If Purchaser uses surfaced roads under jurisdiction of Forest Service other than those listed, Forest Service may establish applicable rates for such surfaced roads.</p> | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------|-------|--|-------|------|----|------------|-------|------|--|-------|---------|---------|------|-------|---------------|-------|------|----------|---------|------------|------|
| <p>SURFACE REPLACEMENT DEPOSIT SCHEDULE</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Road No.</th> <th style="width: 20%;">From</th> <th style="width: 20%;">To</th> <th style="width: 15%;">Miles</th> <th style="width: 30%;">Rate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">52</td> <td>52-15 Road</td> <td style="text-align: center;">SR 49</td> <td style="text-align: center;">0.85</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">\$0.29 Per Green Ton Deposited to Fund Code # FSSR01</td> </tr> <tr> <td style="text-align: center;">52-15</td> <td>Unit 14</td> <td style="text-align: center;">52 Road</td> <td style="text-align: center;">1.06</td> </tr> <tr> <td style="text-align: center;">89-95</td> <td>89-95-17 Road</td> <td style="text-align: center;">SR 89</td> <td style="text-align: center;">0.84</td> </tr> <tr> <td style="text-align: center;">89-95-17</td> <td>Unit 20</td> <td style="text-align: center;">89-95 Road</td> <td style="text-align: center;">0.99</td> </tr> </tbody> </table> | | Road No. | From | To | Miles | Rate | 52 | 52-15 Road | SR 49 | 0.85 | \$0.29 Per Green Ton Deposited to Fund Code # FSSR01 | 52-15 | Unit 14 | 52 Road | 1.06 | 89-95 | 89-95-17 Road | SR 89 | 0.84 | 89-95-17 | Unit 20 | 89-95 Road | 0.99 |
| Road No. | From | To | Miles | Rate | | | | | | | | | | | | | | | | | | | |
| 52 | 52-15 Road | SR 49 | 0.85 | \$0.29 Per Green Ton Deposited to Fund Code # FSSR01 | | | | | | | | | | | | | | | | | | | |
| 52-15 | Unit 14 | 52 Road | 1.06 | | | | | | | | | | | | | | | | | | | | |
| 89-95 | 89-95-17 Road | SR 89 | 0.84 | | | | | | | | | | | | | | | | | | | | |
| 89-95-17 | Unit 20 | 89-95 Road | 0.99 | | | | | | | | | | | | | | | | | | | | |
| <p>Sale Area Average Rate: \$0.29/Ton</p> | | | | | | | | | | | | | | | | | | | | | | | |

C6.24# - SITE SPECIFIC PROTECTION MEASURES (04/2004)

Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures: SITE LOCATIONS ARE NOT SHOWN ON THE SALE AREA MAP - No operations, equipment, or disturbance is permitted within the Cultural Resource Area site boundaries; directional fell away from site(s); no slash to be deposited within site boundaries. Boundaries of site(s) are designated with BLUE and BLACK stripped flagging and/or YELLOW Equipment Keep Out signs. A separate CONFIDENTIAL map of the Cultural Resource site locations is available at the Sierraville Ranger District Office.

Wildlife and Botanical Protection Measures: WILDLIFE - For Limited Operating Periods (LOP), see C6.315# - Sale Operations Schedule for specific LOP dates and affected operations or subdivisions. If a new Threatened, Endangered, or Sensitive (TES) species is listed or discovered, or a nesting TES species is found within 0.25 miles of project activities, a limited operating period appropriate for the TES species will be implemented for the effected subdivisions based on the recommendation by a qualified Wildlife or Fisheries Biologist.

WATERSOURCES - (Amphibians and Fish) -

1. Use an approved water source.
2. Where streams are the sole water source, drafting would be allowed until stream flows reach 2 cfs. Below 2 cfs, drafting would only be allowed in previously developed off-site water impoundments as approved by the Forest Service.
3. Drafting hose will have a suction strainer with holes 2 millimeters or less in size.
4. The end of the drafting hose will be placed in a clean plastic 5 gallon bucket to avoid disturbing the sediment in the stream channel.
5. Drafting will occur in the deepest portion of the stream channel.
6. Drafting equipment shall be secured to prevent equipment from drifting down stream.
7. Do not overfill tanks when collecting water as this can lead to increased sedimentation.
8. Do not back water trucks beyond the established access to water source.
9. If use of water source creates sediment movement. Apply clean crushed gravel or other means to control sediment, and maintain water quality.

BOTANICAL - No operations, equipment, or disturbance permitted within Controlled Areas. Directional fell away from Controlled Areas. No slash is to be deposited within Controlled Area boundaries. The boundaries of Controlled Areas are designated on the ground with ORANGE and WHITE striped flagging printed with "Special Treatment Zone" and/or YELLOW Equipment Keep Out signs. See Sale Area Map for approximate locations.

Cave Resource Protection Measures: N/A

C6.315# - SALE OPERATIONS SCHEDULE (08/2006)

Unless otherwise agreed in writing, Purchaser's Operations shall be performed in accordance with the following schedule:

See Table A

SAMPLE

SCHEDULE PURSUANT TO C6.315# - SALE OPERATIONS SCHEDULE (8/2006)

| Subdivision/ Area/Unit | Conditions of Operation | Purpose |
|--------------------------------------|--|--|
| ALL | <p>For operations approved outside of the Normal Operating Season (October 16 to June 1, inclusive), Purchaser's operations shall be conducted per the requirements of the Tahoe National Forest "Outside Normal Operating Season Standards".</p> <p>Snow plowing or removal will not be permitted unless approved by the Forest Service. Snow plowing or removal shall be conducted per the requirements of the Tahoe National Forest "Outside Normal Operating Season Standards".</p> | Reduce soil compaction, disturbance and protect water quality. |
| 11, 12, 13, 14, and 52-15 Road | <p>A Limited Operating Period (LOP) will be in effect for these Subdivisions from February 15 through and including September 15 for a northern goshawk nest core area. No operations are permitted within Subdivisions 11, 12, 13, and 14 during the LOP. No equipment or vehicle traffic will be permitted on the 52-15 Road during the LOP. No equipment will operate within the nest core area as shown on the Sale Area Map. No timber will be harvested from the nest core area as shown on the Sale Area Map. The Nest Core area is bounded out of the Subdivision 11 and is designated at eye level with two (2) orange paint dots facing into the interior, one (1) orange paint dot facing along the boundary, and orange paint below stump height. This LOP may be modified by the Forest Service, if surveys determine nesting periods have differed from the one listed or nesting will not be affected within a ¼ mile of harvesting activities.</p> | Protection of endangered, threatened, or sensitive species. |

C6.32# - PROTECTION OF RESERVE TREES (04/2004)

Purchaser's damage or destruction of reserve trees described in C2.3# will cause serious and substantial silvicultural or other damage to the National Forest. It will be difficult if not impossible to determine the amount of such damage. Therefore, Purchaser shall pay as fixed, agreed, and liquidated damages \$ \$2,584.55 for each Rust Resistant or Candidate Rust Resistant Sugar Pine reserve tree and \$ N/A for each N/A reserve tree damaged or destroyed by Purchaser's Operations, in addition to amounts payable under B3.45 and B3.46.

Damage, as used herein, includes any injury to the living crown, bole, or roots of reserve trees. If areas are marked on the ground around such reserve trees, operation of heavy equipment or skidding of products within the area shall be considered to be damage to the tree.

C6.331 - LOG TRUCKING (08/2006)

To promote safe operations on National Forest roads and on Specified Roads, loads shall be safely secured before trucks move from the landing or loading location.

C6.37 - SUBSTITUTE METHODS (08/2006)

Notwithstanding other provisions herein, for minor changes such as changes in logging systems for areas smaller than 5 acres, Purchaser and Forest Service may agree in writing that use of substitute methods or equipment will achieve Forest Service objectives under this contract and may be used in lieu of those specified for Purchaser's Operations.

C6.41# - FELLING, BUCKING, AND LIMBING (08/2007)

Unless otherwise agreed in writing, Purchaser's felling, bucking, and limbing operations shall be conducted as specified in the table below.

See Table A

SPECIFICATIONS AND TREATMENTS PURSUANT TO C6.41# - FELLING,
BUCKING AND LIMBING

| <u>Treatment Method and Applicable Map Symbol</u> | <u>Felling, Bucking and Limbing Specifications</u> |
|---|---|
| Limbing | N/A |
| No Lop "No Lop" | Within units or subdivisions designated NO LOP on Sale Area Map, trees shall be skidded/yarded to agreed landing locations prior to lopping. |
| Whole Tree Yarding "Whole" | Notwithstanding the requirements above, within units or subdivisions designated "Whole" on Sale Area Map, trees smaller than 24.0 inches DBH shall be skidded/yarded to agreed landing locations prior to limbing, bucking, and lopping. Trees larger than or equal to 24.0 inches DBH shall be bucked into two or more pieces with the butt portion being no longer than 41.0 feet prior to skidding/yarding. The butt log shall be limbed prior to skidding/yarding. |
| Directional Felling "DF" | Within areas designated DF on Sale Area Map, Included Timber shall be directionally felled away from Streams, Springs, Meadows, Seasonal Wet Areas, Fens, Cultural Resource Sites, Improvements, Property Boundaries, Section Corners, and Controlled Areas with the use of specialized equipment. Such directional felling shall not be required when in the faller's judgment it is unsafe to do so, and shall be left standing. |

SPECIFICATIONS AND TREATMENTS PURSUANT TO C6.41# - FELLING,
BUCKING AND LIMBING CONTINUED

| <p>Treatment of Stumps "TS"</p> | <p>Within areas shown on Sale Area Map, Purchaser shall treat stumps of all live conifer trees equal to or greater than 14.0 inches stump diameter, (measured inside bark) unless otherwise agreed in writing. Treatment shall be with a borate compound registered by EPA in the State of California for prevention of annosus root disease.</p> <p>Treatment shall consist of removal of sawdust and other loose debris from the cut surface of the stump and application of a thin layer of the borate compound uniformly over the entire cut surface, including exposed wood surfaces on the stump sides, at the rate specified on the product label. Any surface irregularities on the stump preventing application of a uniform layer of borate compound shall be cut level prior to treatment. Unless waived in writing, Purchaser shall also apply an approved colorant mixed with the borate compound to insure complete coverage. Treatment should be done as soon as possible but shall be completed no later than 4 hours after felling, otherwise stumps shall be re-cut and treated.</p> <p>Purchaser shall not apply borate compound during heavy rain fall or when such precipitation rate is predicted within 8 hours of application to cause borate compound to be flushed off the stump and become ineffective, in that case treatment shall be reapplied. Application shall be completed within 24 hours of the precipitation having ceased. Borate compound also shall not be applied to stumps located within 25 feet of live streamcourses and meadows/wetlands shown on Sale Area Map and/or 25 feet of sensitive plant location boundaries as flagged on the ground.</p> <p>Purchaser shall provide the borate compound and colorant and apply it in compliance with the State of California laws and regulations pertaining to pesticides and pest control operations. Borate compound storage shall be located such that any spillage will not contaminate water. All spills shall be promptly cleaned up and spilled material disposed of according to the product label. All spills occurring in water or over 1 pounds shall be reported to Forest Service within 4 hours.</p> <p>Purchaser shall submit at the end of each month a "Monthly Summary of Pesticide Use Reports" to the appropriate County Agricultural Commissioner with a copy to the District Ranger.</p> | | | | | | | | |
|-------------------------------------|--|--|--|------------------|-------------------------------|-------------------|-----|-----|--|
| <p>Maximum Log Length</p> | <p>N/A</p> | | | | | | | | |
| <p>Minimum Stump Height</p> | <table border="1"> <thead> <tr> <th data-bbox="570 1623 852 1703">Unit/Subdivision</th> <th data-bbox="852 1623 1135 1703">Minimum Stump Height (inches)</th> <th data-bbox="1135 1623 1414 1703">Purpose or Reason</th> </tr> </thead> <tbody> <tr> <td data-bbox="570 1703 852 1831">ALL</td> <td data-bbox="852 1703 1135 1831">3.0</td> <td data-bbox="1135 1703 1414 1831">Timber Accountability/Fire Precaution/Stump Treatment</td> </tr> </tbody> </table> | | | Unit/Subdivision | Minimum Stump Height (inches) | Purpose or Reason | ALL | 3.0 | Timber Accountability/Fire Precaution/Stump Treatment |
| Unit/Subdivision | Minimum Stump Height (inches) | Purpose or Reason | | | | | | | |
| ALL | 3.0 | Timber Accountability/Fire Precaution/Stump Treatment | | | | | | | |

C6.42# - GROUND BASED SKIDDING (08/2006)

Unless otherwise agreed in writing, the method of skidding Included Timber shall be as shown on the Sale Area Map, by areas, with symbols defined in the following table:

See Table A

SAMPLE

SPECIFICATIONS PURSUANT TO C6.42# - GROUND BASED SKIDDING (08/2006)Ground-Based Skidding Table - C6.42#

| Map Symbol | Requirements |
|--------------|---|
| TRAC | <p>Skid road pattern shall be agreed in advance of felling and main skid roads shall be flagged on the ground in advance of felling. Purchaser shall stage-log by felling and skidding Included Timber in two or more separate operations when necessary to prevent undue damage to the resources or residual stand. Needed tractor trails shall be constructed in advance of skidding.</p> <p>Products shall be end-lined as needed to protect resources or residual timber from unnecessary damage. The number of chokers shall be limited as necessary to avoid unnecessary damage to resources or residual timber. By agreement, tractors may be used to separate products to prevent stain.</p> |
| SUSP | Products shall be skidded with leading end clear of ground. |
| SPACE | Skid roads will average <u>75</u> feet from center to center, except where converging. |
| ENDL | Endlining shall not be required for distances in excess of <u>75</u> feet uphill, and <u>75</u> feet downhill. |
| MAX | Tractors used for skidding outside Clearcutting Units, regeneration units or other authorized clearings, shall be of the type (rubber-tired or track-laying) shown on the Sale Area Map and shall not exceed the overall width designated on Sale Area Map. |
| MH | <p>Purchaser shall cut Included Timber and move it to designated skid trails using equipment with a boom having an operating radius of at least <u>20</u> feet for bunching trees, capable of severing, lowering and placing trees up to <u>24</u> inches diameter at stump height on the ground prior to skidding. Such equipment must be capable of operating on slopes up to <u>30</u> %.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources from unnecessary damage.</p> <p>Trees which exceed capability of specified equipment may be felled, bucked and skidded in a manner consistent with the requirements of B6.41 - Felling and Bucking, C6.41# - Felling, Bucking, and Limbing Requirements and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</p> |

SPECIFICATIONS PURSUANT TO C6.42# - GROUND BASED SKIDDING (08/2006) CONTINUED

Ground-Based Skidding Table - C6.42# Continued

| | |
|-------------|--|
| CTL | <p>Included Timber shall be felled, limbed and bucked by a self-propelled mechanical harvester capable of producing finished sawlogs or chippable boles. Limbs of Included Timber shall be placed evenly in the machinery skid trail prior to product removal. The harvester shall be an all-wheel drive machine with at least 3 axles and a processing head mounted on a boom having a minimum-operating radius of 20 feet.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources or residual timber from unnecessary damage.</p> <p>All Products shall be removed by an all-wheel drive forwarder with at least 3 axles capable of self-loading and unloading. The forwarder shall carry all products free of the ground during removal. The loading crane shall have a minimum-operating radius of 15 feet. Log landings and transfer points shall be agreed in advance of harvesting.</p> <p>Included Timber exceeding the harvester's capability may be felled by conventional chainsaw methods, forwarded to nearest skid trail and processed into a finished Product with harvester or chainsaw, consistent with the requirements B6.61 - Meadow Protection, B6.41 - Felling and Bucking, C6.41# - Felling, Bucking, and Limbing and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</p> |
| PB | <p>Purchaser shall cut Included Timber and move trees to pre-approved skyline corridors to facilitate skyline yarding using equipment with a boom having an operating radius of at least <u>N/A</u> feet for bunching trees, capable of severing, lowering and placing trees up to <u>N/A</u> inches diameter at stump height on the ground prior to yarding. Such equipment must be capable of operating on slopes up to <u>N/A</u> %. Bundles shall not exceed yarder capability or cause unnecessary damage to residual stand.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources from unnecessary damage. Such trees shall be felled away from the corridor in a manner that minimizes residual stand damage during yarding.</p> <p>Included Timber exceeding the feller's capability may be felled by conventional chainsaw methods</p> |
| HCTL | <p>Included Timber shall be felled, limbed and bucked by a self-propelled mechanical harvester capable of producing finished sawlogs or chippable boles. Such equipment must be capable of operating on slopes up to <u>N/A</u> %. The harvester shall be an all-wheel drive machine with at least 3 axles, or track mounted, and a processing head mounted on a boom having a minimum-operating radius of 20 feet.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources or residual timber from unnecessary damage.</p> <p>Included Timber exceeding the harvester's capability may be felled by conventional chainsaw methods.</p> |

C6.5 - STREAMCOURSE PROTECTION (08/2006)

Unless otherwise agreed in writing, wheel or track laying equipment shall not operate within "Buffer Strips" except as necessary for fire suppression activities. "Buffer Strips" are areas marked on the ground or are within the distances identified on the Sale Area Map measured from the apparent high water mark of streamcourses. Boundaries of Buffer Strips may be modified by agreement in writing to meet unforeseen operating conditions.

Culverts, bridges, or other suitable structures shall be required on skid roads and trails only at points where it is necessary to protect Stream courses. The type of crossing structures, method of installation and removal shall be determined by agreement. Purchaser in accordance with C6.6 - Erosion Prevention and Control, shall remove such structures and associated fills.

Damage to Stream course or Buffer Strips caused by unauthorized Purchaser's Operations shall be repaired by Purchaser in a timely and agreed manner to the extent practical as determined by Forest Service to restore and prevent further damage to Stream courses.

C6.6# - EROSION PREVENTION AND CONTROL (05/2008)

Erosion prevention and control work, including Streamcourse protection, required by C6.5 and B6.6 shall be completed within 15 calendar days after skidding operations related to each landing are substantially completed or after Forest Service designation on the ground of work where such designation is required hereunder. Said time limit shall be exclusive of full days lost in Purchaser's Operations due to causes beyond Purchaser's control. Such on the ground designation shall be done as promptly as feasible unless it is agreed that the location of such work can be established without marking on the ground. After September 15 and as long thereafter as operations continue the work shall be done as promptly as practicable. Damage resulting from Purchaser's Operations due to failure to perform required work shall be repaired by Purchaser.

Notwithstanding other provisions in this contract and unless otherwise agreed in writing, any hay, straw, or mulch used in this contract shall be State of California certified weed free.

Additional erosion control requirements of this contract are listed in the following table.

See Table A

SPECIFICATIONS PURSUANT TO C6.6# - EROSION PREVENTION AND CONTROL.Vegetative Soil Stabilization N/A

Special Erosion Prevention Measures Purchaser shall give adequate treatment by spreading slash or wood chips or by agreement giving other treatment to portion of tractor roads, skid trails, landings, cable yarding corridors, tractor-end lined corridors and Temporary Road fills where necessary to supplement other erosion prevention measures required elsewhere in this contract. In no event shall Purchaser be required to treat more acres than that shown in the legend of Sale Area Map. The specific locations to be treated shall be designated on the ground by Forest Service. These special erosion prevention measures are to be done within the same date and time periods as stated above.

Soil Scarification. N/A

Backblading Within recreation development sites and public use areas designated on Sale Area Map, Purchaser shall, at Forest Service request, backblade skid trails in lieu of cross ditching.

Tillage In addition to meeting the requirements of B6.64, unless otherwise agreed in writing, tillage shall be required on the areas listed in the following table.

Tillage shall be accomplished by equipment that will lift and fracture the soil by vertical and lateral shattering, leaving soil loosened through the full width and depth of the compacted layer with the topsoil remaining substantially in place rather than being inverted.

Tillage depth is shown in the following table. Agreement in writing may be made to a lesser depth if rocks or other limiting site conditions are encountered.

Tillage shall be limited to periods when soil dryness will result in crumbled soil, avoiding the formation of large clods. Purchaser and Forest Service shall agree in writing on the timing of completion of such work to coordinate with desirable soil moisture conditions.

| Areas to Till | Tillage Depth (Inches) | Maximum Acres to Treat |
|--|------------------------|------------------------|
| Landings | 24 | 10 |
| Main Skid Roads and Tractor Roads designated by Forest Service | 24 | 1 |
| Temporary Roads | 24 | 1 |

C6.7# - SLASH TREATMENT (08/2006)

Purchaser shall pile, scatter, yard, construct firelines or otherwise treat slash defined in specifications below, within designated areas. Work required of Purchaser shall be in accordance with the following slash plan and specifications, and the Sale Area Map.

All vegetative debris associated with construction of Specified Roads such as unutilized timber, brush and grubbed stumps is Construction Slash. Measures to be taken by Purchaser for treatment of Construction Slash are set forth in the attached road construction specifications and in the attached slash treatment specifications.

Vegetative debris larger than 1 inch in diameter outside bark and 3 feet long resulting from Purchaser's Operations, other than Construction Slash, is Logging Slash. Measures to be taken by Purchaser for treatment of Logging Slash are set forth below unless otherwise agreed in writing.

Forest Service and Purchaser shall jointly develop a schedule for completion of slash treatment on the various portions of Sale Area prior to Purchaser's Operations.

Removing may be substituted for treatment of any other specified method.

By agreement in writing, certain slash may be left for fuelwood. When the specified treatment is by a combination of methods, Logging Slash not treated by one of the methods shall be treated by the other(s).

See the slash treatment specification table below.

See Table A.

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006)

Specified slash treatment methods shall be shown on Sale Area Map or listed in the following tables by the following symbols:

Slash Treatment Methods

| <u>Symbol</u> | <u>Method</u> | <u>Definition</u> |
|----------------------|-------------------------------|--|
| Buck-L | "Bucking Large Logging Slash" | Tops and limbs over 4 inches diameter outside bark (d.o.b.), not to be otherwise treated, shall be bucked into lengths not to exceed 6 feet, unless agreed otherwise. |
| Buck-P | "Bucking and Piling" | Logging Slash smaller than N/A inches and larger than 4 inches in large end d.o.b. shall be bucked into lengths not to exceed N/A feet and left in place. Logging Slash 4 inches and smaller in large end d.o.b. shall be hand Piled within Required Disposal Strip for Forest Service disposal. |
| Bury | "Burying" | Logging Slash shall be buried where agreed in borrow areas, pits, trenches, or other locations reasonably near the area of origin. Logging Slash shall be matted down in layers and shall be covered with at least 2 feet of rock and soil so that the final surface is sloped to drain and relatively smooth. |
| Chip | "Chipping" | Chippable Logging Slash up to 4 inches in d.o.b. shall be processed through a chipping machine. Chips shall be scattered to a loose depth not exceeding 6 inches. |
| Deck | "Decking" large material | Logging Slash N/A inches or larger in large end d.o.b. and N/A feet or more in length shall be Decked for disposal by Forest Service by piling pieces parallel to each other. |
| Mach | "Machine Piling" | Concentrations of Logging Slash, excluding scattered individual pieces, shall be Machine Piled by tractor equipped with brush rake for disposal by Forest Service. |
| Pile | "Piling" small material | Logging Slash smaller than N/A inches in large end d.o.b. and N/A feet long shall be hand Piled for disposal by Forest Service. |
| Remove | "Removing" | Logging Slash shall be moved or hauled to locations shown on Sale Area Map and designated on the ground where it shall be piled for disposal by Forest Service. |
| Scat 18" Scat 30" | "Scattering" | Logging Slash shall be scattered to reduce slash concentrations with slash being generally left within 18 or 30 inches of the ground as shown on Sale Area Map. Logging Slash shall be scattered into openings away from and without unnecessary damage to residual trees. All scattered logs shall be limbed, placed away from trees and positioned so they will not roll. When Scattering is specified, another method may be used by agreement. |

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) CONTINUED

Stack “Stacking” small material Logging Slash **N/A** inches or smaller in large end d.o.b. and **N/A** feet or more in length shall be stacked for disposal by Forest Service by piling pieces parallel to each other.

View “Visible Slash Treatment” Designated on Sale Area Map with boundaries posted on the ground are **N/A** with distance limitations for visible Logging Slash adjacent thereto, Logging Slash shall be treated by Purchaser. Primary treatment shall be by Removing, Burying, Chipping, Piling, Machine Piling, or a combination of these means unless a method is specified or prohibited on Sale Area Map. Logging Slash not readily treated by the selected or specified method shall be removed to designated areas or treated as agreed.

YUMD “Yarding Unutilized Material-Decking” All unutilized material developed by Purchaser’s Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized material shall be Yarded to landings and Decked. Where this is impractical, or other reasons, other locations shall be agreed upon.

| Unit | Large End d.o.b. (in) | Length (feet) |
|------|-----------------------|---------------|
| N/A | | |
| | | |

YUME “Yarding Unutilized Material-Exterior Boundary” All unutilized material developed by Purchaser’s Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized material shall be yarded to locations a minimum of 50 feet slope distance within the exterior boundaries of such units and positioned so the yarded material will not roll.

| Unit | Large End d.o.b. (in) | Length (feet) |
|------|-----------------------|---------------|
| N/A | | |
| | | |

YUML “Yarding Unutilized Material-Landing” All unutilized material developed by Purchaser’s Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized shall be yarded to locations within 100 feet slope distance of landing. Where this is impractical, or other reasons, other locations shall be agreed upon.

| Unit | Large End d.o.b. (in) | Length (feet) |
|------|-----------------------|---------------|
| N/A | | |
| | | |

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) CONTINUED

YUMR “Yarding Unutilized Material-Removal”

All unutilized material developed by Purchaser’s Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized shall be removed to locations shown on Sale Area Map and designated on the ground, or other agreed locations, and Decked.

| Unit | Large End d.o.b. (in) | Length (feet) |
|------------|-----------------------|---------------|
| N/A | | |
| | | |

Cover “Covering Piles”

All piles shall be covered with a durable waterproof covering as approved by Forest Service. The material shall be at least six feet in width. Piles shall not be less than fifty percent covered, with the covering extending not less than half way down all sides. Pieces of burnable material shall be placed on top of the durable waterproof covering to keep the covering from blowing off the pile.

Fell “Damaged Small Tress”

Unless treated under other provisions, all trees smaller than the minimum d.b.h. in A2, over 5 feet in height, and damaged beyond recovery by Purchaser's Operations shall be felled. Such trees shall be limbed to a stem diameter outside bark of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and shall be bucked into lengths not exceeding 20 feet.

Fire-L “Firelines”

Shown on Sale Area Map and to be flagged on ground after logging by Forest Service are firelines to be constructed by Purchaser unless otherwise agreed in writing. Purchaser shall construct not more than **N/A** chains of fireline by hand and not more than **N/A** chains of fireline by tractor.

Firelines constructed by hand shall be cleared of all vegetative debris larger than one inch in d.o.b. and three feet long. The width of firelines shall be at least **N/A** feet, except across the top of cutting units where the width shall be at least **N/A** feet. At least **N/A** feet shall be scraped to mineral soil. In areas where there is potential for burning material to roll, the fireline shall be constructed in a trenched manner on the downhill side.

Tractor lines shall be cleared of all vegetative debris, larger than one inch in diameter and three feet long, to a width of at least **N/A** feet, with at least **N/A** feet to mineral soil. No slash, brush, or other vegetative debris shall be buried in or under berms created in the construction of firelines. All limbs overhanging into the fireline, shall be removed to a minimum height of 8 feet.

Firelines shall be completed on each unit in accordance with B6.311 unless otherwise agreed in writing.

In subdivisions **N/A** and shown on Sale Area Map, Logging Slash shall be scattered within **N/A** feet slope distance of the inside edge of firelines.

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) CONTINUED

| | | |
|--------|--------------|--|
| Fuel-B | “Fuelbreaks” | Shown on Sale Area Map, with boundaries designated on the ground, are “Fuelbreaks” of varying width. Within such Fuelbreaks all Logging slash and Construction slash shall be treated by Purchaser. Primary treatment shall be by Removing, Burying, Chipping, Piling, Machine Piling, or a combination of these methods unless a method is specified or prohibited on Sale Area Map. Slash larger than treatment size requirements of selected or specified methods shall be scattered outside Fuelbreak, or treated as agreed. |
|--------|--------------|--|

PILING SPECIFICATIONS. All piles shall be reasonably compact and free of soil to facilitate burning and shall be constructed of such size and at such distance from trees so that burning shall not result in unnecessary damage to residual timber. Such Logging Slash shall be bucked into lengths not exceeding ten feet prior to piling. Maximum width of tractor, with brush rake attached, shall not exceed **144** inches. Machine Piling is not required on areas where use of tractors would cause undue damage to residual timber or where slopes exceed **30** percent. Piles shall be located a distance of at least twice their height in feet from the outer edge of tree crowns or snags. Piles shall be no less than four feet in height or greater than **12** feet in height. Material extending three feet or more outside the edge of a pile shall be trimmed. An **eight** foot fuelbreak shall be cleared of all but fine material around each Machine Pile and an **18** inch wide fireline shall be cleared to mineral soil around the outer ring of the fuelbreak. For hand piles, Purchaser shall construct a fireline cleared to mineral soil and at least **3** feet wide around each pile. In areas where there is a potential for burning material to roll, firelines, including those for Machine Piles, shall be trenched on the downhill side of each pile to adequately prevent material from crossing firelines. Trenches shall be constructed by hand unless otherwise agreed.

UNIT AND SUBDIVISION.SLASH TREATMENT SPECIFICATIONS.

| | SLASH TREATMENT | |
|-------------------------------|-------------------------|--------------------------|
| Subdivision or Unit No | Specified Method | Prohibited Method |
| N/A | N/A | N/A |
| | | |
| | | |

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) CONTINUED

TREATMENT ALONG PERMANENT ROADS. Permanent roads that require roadside slash treatment are listed in the attached table and shown on Sale Area Map. All Logging and Construction Slash within Required Disposal Strips shall be treated by Purchaser. "Required Disposal Strips" are those areas adjacent to permanent roads where slash treatment is required for resource objectives. The width of Required Disposal Strips is shown in the attached table and is measured in slope distance from Roadbed edges of permanent roads. By agreement, in Clearcutting Units and regeneration units slash from Required Disposal Strips may be treated with other Logging Slash. By agreement the location of Required Disposal Strips may be adjusted from side to side without materially changing the total work required.

Slash treatment in Required Disposal Strips shall be accomplished without affecting the proper functioning of channels leading to and from drainage structures.

Logging Slash larger than treatment size requirements of the specified method shall either be Scattered outside Required Disposal Strip, within Required Disposal Strip or Decked at agreed locations as shown in the attached table.

| | | | SLASH TREATMENT | |
|-----------------|--|---|-------------------------|--|
| Road No. | Subdivision and/or Unit No. or Road Junctions (From To) | Width of Required Disposal Strip | Specified Method | Slash Larger Than Treatment Size Requirements of Specified Method |
| N/A | | | | |

TREATMENT ALONG TEMPORARY ROADS. Outside of Clearcutting Units or regeneration units, all trees felled or pushed over and trees damaged beyond recovery by Temporary Road construction shall be felled, limbed to a stem d.o.b. of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and stem shall be bucked into lengths not exceeding **20** feet. Such slash shall be Scattered free of soil to reduce concentrations unless treatment is required by another specified method.

ADDITIONAL SLASH TREATMENT REQUIREMENTS. Within areas shown on Sale Area Map, Purchaser shall perform work according to the specifications in the attached Table, unless otherwise agreed in writing.

| Subdivision, Payment Units, Roads and or Road Segments | Additional Slash Treatment Requirements |
|--|---|
| ALL | <p>Yard all stem material to a top d.o.b. of 1 inch, from timber designated for cutting, with the following exception: broken portions of logs and tops less than 4 feet in length need not be yarded.</p> <p>Broken ends of merchantable logs shall not be bucked off in the units.</p> <p>Slash and Substandard Material accumulated at the landings shall be Decked or Machine Piled, in accordance with specifications above.</p> <p>Mulch will be spread to a maximum depth no greater than 4.0 inches on skid trails. Existing slash adjacent to skid trails will be used, if available, before slash from the landings.</p> |
| ALL | <p>Material accumulated at landings shall be considered as Timber Subject to Agreement under C2.11#, described as Substandard Material and may be removed and paid for at Purchaser's option.</p> |

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) CONTINUED

ASSISTANCE IN SLASH BURNING. If Forest Service requests, Purchaser shall furnish equipment and equipment operators to assist in preparation for slash burning at agreed times prior to the normal slash burning season in the area.

Purchaser shall furnish equipment and equipment operators for burning and mop-up when requested. The amount and kind of equipment requested shall be that normally used in slash treatment work and reasonably available under the existing equipment organization of Purchaser. Forest Service shall reimburse Purchaser for such work at rates common in the area or at previously agreed rates.

SAMPLE

C6.849 - PRODUCT ACCOUNTABILITY (08/2006)

Unscaled products from Included Timber shall not be hauled or presented for scaling on Sundays, Holidays, or after normal scaling hours at the designated scaling location without the written approval of the Contracting Officer.

C7.2# - SPECIFIED FIRE PRECAUTIONS (06/2012)

Purchaser or a designated Purchaser's Representative shall certify compliance with specific Timber Sale Contract and California Public Resources Code (CPRC) fire precautionary measures in B7.1 Plans, C7.2# and C7.22#. Certification shall be provided prior to starting operations during Fire Precautionary Period and shall be updated as needed.

Listing of specific fire precautionary measures in the following subsections is not intended to relieve Purchaser in any way from compliance with State fire laws covering fire prevention and suppression equipment applicable to Purchaser's Operations.

Upon request of Forest Service, Purchaser shall permit and assist in periodic testing and inspection of required fire equipment.

The following definitions shall apply to C7.2# and C7.22#:

Active Landing: A location Purchaser is skidding logs into, or performing other operations such as delimiting, log manufacturing, and chipping logs. Except for EV and E days, loading logs or stockpiled 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, piling, log processing and/or yarding which requires the use of motorized power which includes, chainsaws, chippers, motorized carriages, masticators, stroke delimiters, skidders etc.

Specific equipment requirements and fire precautionary measures are shown in the following table and in C7.22#:

Table A

SPECIFICATIONS PURSUANT TO C7.2# - SPECIFIED FIRE PRECAUTIONS. (06/2012)

A. Fire Tools and Equipment

Purchaser shall meet applicable parts of Section 4428 of the CPRC.

Unless agreed otherwise, Fire tools kept at each Active 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 Purchaser's Operations. Tractor headlights shall be attachable to each tractor and served by an adequate power source. Fire tools shall be kept in a sealed fire tool box adjacent to the Active Landing and readily accessible in event of fire.

Where cable yarding is used, Purchaser shall provide a size 0 or larger shovel with an overall length of not less than 46 inches and a serviceable 5 gallon backpack pump filled with water or a fire extinguisher bearing a label showing at least a 4-A rating must be within 25 feet of each tail and corner block.

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.

All required fire tools shall be maintained in suitable and serviceable condition for fire fighting purposes.

B. Fire Extinguishers

Purchaser shall equip each internal combustion yarder, fuel truck, and loader with a (4-A:60-B:C) fire extinguisher for oil and grease fires.

Skidders and tractors shall be equipped with a minimum 5-BC fire extinguisher.

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

Purchaser shall equip all mechanized harvesting machines and log processors with hydraulic systems, powered by an internal combustion engine (e.g. masticator, chipper, feller/buncher, harvester, forwarder, Hot Saw, stroke delimeter, etc), with at least two 4-A:60-B:C fire extinguishers or an acceptable CAFS substitute identified in Section K.

C. Spark Arresters and Mufflers

Except for tractors and other equipment with exhaust-operated turbochargers, Purchaser shall equip each operating tractor and any other internal combustion engine with an approved spark arrester. There shall be no exhaust bypass on any system.

Spark Arresters shall be a model tested and approved under Forest Service Standard 5100-1a as shown in the National Wildfire Coordinating Group Spark Arrester Guide, Volumes 1 and 2, and shall be properly mounted and maintained according to manufacturer's specifications.

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.

SPECIFICATIONS PURSUANT TO C7.2# - SPECIFIED FIRE PRECAUTIONS. (06/2012) CONTINUED

D. Power Saws

Each power saw shall be equipped with a spark arrester approved and maintained in effective working order as identified in the Spark Arrester Guide in Section C. above and according to applicable parts of CPRC Section 4442 or 4443. An Underwriters Laboratories (UL) approved fire extinguisher containing a minimum 14 ounces of fire retardant shall be kept with each operating saw.

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 power saw when used off cleared landing areas.

E. Fire Supervisor & Fire Patrolperson

Purchaser shall designate in the fire plan required by B7.1 and furnish on Sale Area during operating hours a fire supervisor, named in writing and authorized to act on behalf of Purchaser in fire prevention and suppression matters.

Unless agreed otherwise, Purchaser shall furnish and designate in writing, a Fire Patrolperson each operating day when Project Activity Level C or higher is in effect. When on duty, the Fire Patrolperson is required to patrol the operation for the prevention and detection of fires, to take suppression action where necessary and to notify Forest Service as required under Sections I. Reporting Fires and L. Communications. This Fire Patrol is required on foot, unless otherwise agreed.

By written agreement, one Fire Patrolperson may provide patrol on this and adjacent projects or sales. No Fire Patrolperson shall be required on Specified Road construction jobs except during clearing operations unless otherwise specified.

F. Seasonal Permits

Purchaser shall obtain written permits from Forest Service before allowing welding, warming fires or burning, subject to C7.22# – Emergency Precautions.

G. Clearing of Fuels

Purchaser shall clear away, and keep clear, fuels and logging debris as follows:

| | |
|---|---|
| Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law: | 10 feet slope radius |
| Tail or corner haulback blocks: | All running blocks on a cable yarding operation shall be located in the center of an area that is cleared to mineral soil at least 15 feet in diameter. |
| Lines near, between or above blocks: | Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material. |

SPECIFICATIONS PURSUANT TO C7.2# - SPECIFIED FIRE PRECAUTIONS. (06/2012) CONTINUED

H. Smoking All smoking shall be confined within a car, truck, crew rig or other enclosed cab after 1:00 PM on Ev days and all hours on E days (C7.22#). At other times, any smoking shall be done while sitting in an area at least 3 feet in diameter, cleared of flammable materials. Burning tobacco and matches shall be extinguished before they are properly disposed.

I. Reporting Fires As soon as feasible, but no later than **15 minutes** after discovery, Purchaser shall notify Forest Service of any fires on Sale Area or along roads used by Purchaser.

J. Tank Truck Purchaser shall provide a water tank truck or trailer on or in proximity to Sale Area during Purchaser's Operations hereunder during Fire Precautionary Period unless otherwise agreed.

Tank truck or trailer shall contain at least 300 gallons of water and comply with the following requirements:

(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 Sale Area by Forest Service using a 5/16 inch orifice with a one inch in line test kit and shall meet or exceed the pressure values identified in the following table for nearest temperature and elevation:

| T e m p | Sea Level | | 1000 Feet | | 2000 Feet | | 3000 Feet | | 4000 Feet | | 5000 Feet | | 6000 Feet | | 7000 Feet | | 8000 Feet | | 9000 Feet | | 10000 Feet | |
|------------------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|------------|----|
| | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G |
| 55 | 17 | 23 | 17 | 23 | 16 | 23 | 16 | 22 | 16 | 22 | 15 | 22 | 15 | 22 | 15 | 21 | 14 | 21 | 14 | 21 | 13 | 21 |
| 70 | 17 | 23 | 17 | 23 | 16 | 22 | 16 | 22 | 15 | 22 | 15 | 22 | 15 | 21 | 14 | 21 | 14 | 21 | 13 | 21 | 13 | 20 |
| 85 | 17 | 23 | 16 | 23 | 16 | 22 | 15 | 22 | 15 | 22 | 15 | 21 | 14 | 21 | 14 | 21 | 14 | 21 | 13 | 20 | 13 | 20 |
| 100 | 16 | 23 | 16 | 23 | 15 | 22 | 15 | 22 | 15 | 22 | 14 | 21 | 14 | 21 | 14 | 21 | 13 | 20 | 13 | 20 | 13 | 20 |
| | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G | P | G |
| | S | P | S | P | S | P | S | P | S | P | S | P | S | P | S | P | S | P | S | P | S | P |
| | I | M | I | M | I | M | I | M | I | M | I | M | I | M | I | M | I | M | I | M | I | M |

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 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.

SPECIFICATIONS PURSUANT TO C7.2# - SPECIFIED FIRE PRECAUTIONS. (06/2012) CONTINUED

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

| | G.P.M. | Horizontal Range |
|-----------------|--------|------------------|
| Straight Stream | 10 | 38 feet |
| Fog Spray | 6 - 20 | N/A |

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

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

- (6) 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 C7.22#.

K. Compressed Air Foam System (CAFS)

A fire suppression system where compressed air is added to water and a foaming agent. By agreement, Purchaser 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:

1. Variable foam expansion ratio – 10:1 to 20:1.
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 propellent.
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 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 C7.22#.

L. Communications

Purchaser shall furnish a serviceable communications system such as a telephone, radio-telephone, radio system or satellite phone connecting each operating side within the Sale Area with Purchaser's headquarters, and capable of notifying Forest Service within **15 minutes** of discovery of any fires on the Sale Area or along Purchaser's haul route. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service may agree to a reasonable alternative notification method.

A Citizen's Band (CB)radio is not acceptable communications.

SPECIFICATIONS PURSUANT TO C7.2# - SPECIFIED FIRE PRECAUTIONS. (06/2012) CONTINUEDM. Cable Yarding
Tank Unit

When all or part of Included Timber will be harvested by a long span (over 1,500 feet)cable yarding operation, Purchaser shall provide at each active cable yarding landing a tank truck, trailer or acceptable CAFS substitute which can be lifted and transported by the carriage.

The unit shall meet the same requirements as specified for the tank truck, trailer or approved CAFS substitute.

N. Helicopter Yarding
Fire Precautions

Purchaser shall provide and maintain fire equipment as follows:

1. The fire tool box required under this provision shall be equipped for attachment to the helicopter long line so that it may be hauled to needed locations. Such attachment device shall not interfere with access to fire tools. Unless agreed otherwise, the fire tool box shall be located at the Active Landing ready for immediate dispatch.
2. An external helibucket readily attachable to the helicopter, with a capacity of at least 500 gallons, and having a remote control door mechanism adequate for rapid dropping of water. The helibucket shall be located at the helicopter service landing and shall be filled with water ready for immediate dispatch unless otherwise agreed.
3. All aircraft used in conjunction with Purchaser's Operations shall be equipped with an operable radio system capable of meeting Region Five avionics requirements.
4. For protection of fuel servicing operations, fire extinguishers which have the following ratings based on the open hose discharge capacity, i.e., "broken hose," of the aircraft fueling system shall be readily available:
 - a. Where said capacity does not exceed 200 gallons per minute, at least one approved extinguisher having a minimum rating of 20-B;
 - b. Where said capacity is in excess of 200 gallons per minute, but not over 350 gallons per minute, one approved extinguisher having a minimum rating of 80-B;
 - c. Where said capacity is in excess of 350 gallons per minute, two approved extinguishers, each having a minimum rating of 80-B.
5. By agreement, a suitable CAFS may also be used in lieu of the above extinguishers.
6. Extinguishers of over 50 pounds gross weight shall be of wheeled type or be mounted on carts to provide mobility and ease of handling.

C7.22# - EMERGENCY PRECAUTIONS (06/2012)

Purchaser's Operations shall conform to the limitations or requirements in the Project Activity Level (PAL) table below. Unless otherwise agreed in writing, Project Activity Levels applicable to this project shall be the predicted levels for the Fire Danger Rating Area(s), or fire weather station(s) stated in the Sale Area Map legend.

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. Purchaser shall obtain the predicted Project Activity Level from the appropriate Ranger District Office before starting work each day.

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

PROJECT ACTIVITY LEVEL (PAL) - C7.22# - EMERGENCY PRECAUTIONS

SAMPLE

PROJECT ACTIVITY LEVEL (PAL) – C7.22# - EMERGENCY PRECAUTIONS**PROJECT ACTIVITY LEVEL TABLE**

| Level | <i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i> |
|--------------|---|
| A | Minimum required by C7.2#. |
| B | 1. Tank truck, trailer, or approved CAFS substitute shall be on or adjacent to the Active Landing. |
| 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 Welding or cutting of metal after 1:00 PM, except by special permit. |
| Ev | <p>1. The following activities may operate all day:</p> <ol style="list-style-type: none"> Loading and hauling logs decked at approved landings. Loading and hauling chips stockpiled at approved landings. Servicing equipment at approved sites. 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). Chainsaw and log processing operations associated with loading logs or other forest products at approved landings. <p>2. Hot Saws or Masticators may operate until 1:00 PM; provided that:</p> <ol style="list-style-type: none"> 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. Any additional restrictions specified by the Forest. <p>3. All other conventional Mechanical Operations are permitted until 1:00 PM.</p> <p>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:</p> <ul style="list-style-type: none"> • Rubber Tire Skidding • Chipping on Landings • Helicopter Yarding • Fire Salvage <p>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 Forest Service. Variance approval is contingent on the 7-day fire weather forecast, fuel conditions, site characteristics, current fire situation, state of Purchaser's equipment for prevention and suppression readiness, type of operation and social and community considerations etc. (See attached Project Activity Level Variance Agreement).</p> |

PROJECT ACTIVITY LEVEL (PAL) – C7.22# - EMERGENCY PRECAUTIONS
CONTINUED

PROJECT ACTIVITY LEVEL TABLE CONTINUED

| | |
|----------|--|
| E | <p>The following activities may operate all day:</p> <ol style="list-style-type: none">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. <p>All other activities are prohibited.</p> |
|----------|--|

SAMPLE

SPECIFICATIONS PURSUANT TO C7.22# – EMERGENCY PRECAUTIONS. (10/2010)

Region 5 Project Activity Level (PAL) Ev Variance Application/Agreement

Project Name: _____
 Contract Number: _____
 Purchaser/Purchaser Name: _____
 Request # ____, for period: _____
 Units/Subdivisions Affected: _____

| Location of operation: | |
|--|--|
| Slope | |
| Aspect | |
| Elevation | |
| Fuels on site | |
| Fuels in surrounding area | |
| 7 Day PAL Outlook | |
| Short range predictions (Red Flags) | |
| <i>Fuel Moistures</i> | |
| Response time of suppression resources | |
| Potential for ignition | |
| RAWS location | |
| | |
| Current Fire Situation: | |
| Draw down information | |
| National Readiness Level | |
| | |
| Contractual considerations: | |
| Normal Operating Season | |
| Frequency of recent contract fires in area | |
| Type of operation | |
| Purchaser/Purchasers past/current performance & equipment readiness | |
| Other site specific mitigation or precaution (i.e. Purchaser/Purchasers proposals) | |
| | |
| Social & Community Considerations: | |
| Proximity of high value resources | |
| Sensitivity of location | |
| Remarks: | |
| | |

SPECIFICATIONS PURSUANT TO C7.22# – EMERGENCY PRECAUTIONS. (10/2010)
CONTINUED

Ev Proposed Actions

Rubber Tired Skidding

Chipping on Landings

Helicopter Yarding

Fire Salvage

Description of Mitigation Measures

[Empty box for Description of Mitigation Measures]

Fire Management Officer Concurrence

Date

Line Officer Approval

Date

I have considered the above request and determined the specified mitigation measures or actions must be implemented to continue operations in Project Activity Level Ev. Unless extended, the approval remains in effect for ten (10) calendar days unless cancelled sooner or extended by the Forest Service for an additional ten (10) days. At the sole discretion of the Forest Service, this variance can be modified and/or cancelled at no cost to the government.

Contracting Officer

Date

Purchaser/Purchaser Rep.

Date

C8.212 - MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in A20. Purchaser will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Purchaser's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Purchaser's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

(i) The sale was awarded after December 31, 2006; and

(ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Purchaser's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

C8.4 - PERFORMANCE BY OTHER THAN PURCHASER (04/2004)

This Section adds subparagraph (b)(iii) to B8.4 as follows:

(iii) Specifically assumes in writing the obligations of Purchaser as listed in Small Business Certification executed by Purchaser and attached to and made a part of this contract.

C8.64 - DEBARMENT AND SUSPENSION CERTIFICATION (03/2018)

Pursuant to 2 CFR 180 and 2 CFR 417, Purchaser shall certify and obtain certifications from its Subcontractors regarding debarment, suspension, ineligibility, and voluntary exclusion, including additional Subcontractors obtained after award of this contract. 'Subcontractors' are participants in lower tier covered transactions.

Purchaser may rely upon a certification of a prospective Subcontractor that it is not proposed for debarment under 48 CFR 9.4, debarred, suspended, ineligible, or voluntarily excluded from participating in covered transactions or timber sales, unless Purchaser knows that the certification is erroneous.

Purchaser shall keep the certifications of its Subcontractors on file until timber sale Termination Date and any extensions thereof, and will provide a copy at the written request of Contracting Officer. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this Subsection. The knowledge and information of Purchaser is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

If Purchaser knowingly enters into a timber sale transaction with a person who is proposed for debarment under 48 CFR 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in covered transactions or timber sales, in addition to other remedies available to the Government, Forest Service may pursue available remedies, including suspension and/or debarment.

Contracting Officer shall provide a copy of Forms AD-1047, Certification Regarding Debarment, Suspension and Other Responsibility Matters-Primary Covered Transactions, and AD-1048, Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions to the Purchaser.

Purchaser shall complete form AD-1047 and provide to the Contracting Officer upon request.

Purchaser shall require each Subcontractor to complete form AD-1048 and provide to the Contracting Officer upon request.

C8.66# (Option 1) - USE OF TIMBER (04/2004)

(a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, et seq.).

(b) Except for NONE determined pursuant to public hearing to be surplus, unprocessed Included Timber shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Purchaser or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting standards defined in the Act (16 USC 620e); and

(iii) Aspen or other pulpwood bolts exceeding 100 inches in length.

(d) Unless otherwise agreed in writing, unprocessed Included Timber shall be delivered to a domestic processing facility and shall not be mixed with logs intended for export.

(e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Purchaser shall furnish to Forest Service, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates.

(f) Prior to delivering unprocessed Included Timber to another party, Purchaser shall require each buyer, exchangee, or recipient to execute an acceptable agreement that will:

(i) Identify the Federal origin of the timber;

(ii) Specify domestic processing for the timber involved;

(iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;

(iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and

(v) Otherwise comply with the requirements of the Act (16 USC 620d).

(g) No later than 10 days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to Forest Service a copy of each such agreement. Purchaser shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Included Timber.

(h) Upon request, all records dealing with origin and disposition of Included Timber shall be made available to Contracting Officer.

(i) For breach of this Section, Forest Service may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by Forest Service under this Section, Forest Service will not be liable for any Claim submitted by Purchaser relating to the termination.

C8.73 - REQUIREMENT FOR SMALL BUSINESS PROCESSING (04/2004)

To meet the requirements of the small business timber sale set-aside program, Purchaser shall not sell, trade, exchange, or otherwise convey for processing more than 30 percent (50 percent in Alaska) of the advertised sawtimber volume of this sale to a concern that is not a small business within the meaning of the small business size regulations found in 13 CFR 121.507.

Purchaser shall, at the time of execution of this contract, complete the "Small Business Certification" (SBA form 723) and submit it to Contracting Officer. The completed certification together with its provisions pertaining to the disposition, manufacturing, and record keeping requirements of Included Timber by Purchaser and other small business concerns is hereby made a part of this contract.

Upon request of Contracting Officer or an officer of the Small Business Administration, Purchaser shall furnish all records sufficient to verify eligibility and compliance with the requirements of this program. Such records may include employee payroll records, disposition of Included Timber records, and other documents as necessary.

Failure to provide records upon request, filing false information, or making false statements relating to SBA size status or failing to comply with the disposition and manufacturing requirements of Included Timber shall be considered a breach of this Subsection and may result in termination of this contract pursuant to B9.31.

SAMPLE