

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

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

Name of Purchaser

National Forest Lassen	Ranger District Eagle Lake	Region Pacific S-West	Contract Number
Sale Name Hog Fire Salvage Reoffer		Award Date	Termination Date 03/31/2022

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 554 acres more or less is located in:

Township 29 North, Range 10 East, Sections 1, 2, 3, 10, 11, and 12; Township 29 North, Range 11 East, Section 6; Township 30 North, Range 10 East, Sections 34, 35; Mount Diablo Meridian.

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
Douglas Fir	Sawtimber	280.76	MBF	12.0	1	10	8.0	25
Incense Cedar	Sawtimber	92.11	MBF	12.0	1	10	8.0	25
Ponderosa Pine	Sawtimber	2,679.15	MBF	12.0	1	10	8.0	25
Sugar Pine	Sawtimber	32.18	MBF	12.0	1	10	8.0	25
White Fir	Sawtimber	176.40	MBF	12.0	1	10	8.0	25
Total Quantity		3,260.60	MBF					

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)	_____	284.5
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) \$	
Douglas Fir	Sawtimber	MBF	.50	.50			.00
Incense Cedar	Sawtimber	MBF	.50	.50			.00
Ponderosa Pine	Sawtimber	MBF	.50	.50			.00
Sugar Pine	Sawtimber	MBF	.50	.50			.00
White Fir	Sawtimber	MBF	.50	.50			.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)
All	Sawtimber	12

A7 - Specified Roads, applicable to B5.2

Name and Date of Governing Road Specifications: FP-14 Federal Highway Administration Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, as amended and supplemented (English)

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 Log Scaling Handbook, FSH 2409.11.

Scaling Specifications					
Species	Product	Maximum Scaling Length (feet)	Trim Allowance		
			Diameter Range (inches)	Length Range (feet)	Trim Allowance (inches)
All	Sawtimber	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 \$
All	Sawtimber	MBF	Sale Area	Conventional (100%) Log Scale	.00

A11 - Minimum Scaling Volumes, applicable to B6.81
 Minimum volume for Continuous Scaling Services in two-week period 0 MBF per scaler
 Minimum volume for Intermittent Scaling Services 0 MBF on a MONTH basis

A12 - Fire Precautionary Period, applicable to B7.2
 May 01 to December 01, inclusive

A13 - Purchaser Responsibility to Furnish Crews and Equipment for:
Initial Fire Supression, 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: \$ \$37,800.00

A15 - Termination Date, applicable to B8.2

March 31, 2022

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

First Period: June 01 to October 31, 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: Not Applicable **Index Number:** N/A

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
B8.64	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.)

C2.2#	MINIMUM PIECE SIZE FOR SAWTIMBER (02/2009)
C2.35#	DESIGNATION OF TIMBER, CUTTING UNIT BOUNDARIES, AND SUBDIVISION/PAYMENT UNIT BOUNDARIES (06/2012)
C2.353#	DESIGNATION BY DAMAGE CLASS (04/2004)
C4.211	DOWNPAYMENT (06/2007)
C4.212	TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)
C4.4	PAYMENTS NOT RECEIVED (08/2012)
C5.31#	ROAD MAINTENANCE REQUIREMENTS (07/2001)
C5.35#	ROAD AND WATER SUPPLY USE (05/2008)
C6.24#	SITE SPECIFIC PROTECTION MEASURES (04/2004)
C6.315#	SALE OPERATIONS SCHEDULE (08/2006)
C6.331	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)
C6.62#	SITE SPECIFIC WETLANDS PROTECTION MEASURES (07/2001)
C6.7#	SLASH TREATMENT (08/2006)
C6.815	THIRD PARTY SCALING SERVICES (04/2004)
C7.2#	SPECIFIED FIRE PRECAUTIONS (06/2012)
C7.22#	EMERGENCY PRECAUTIONS (06/2012)
C8.64	DEBARMENT AND SUSPENSION CERTIFICATION (03/2018)
C8.66# (Option 1)	USE OF TIMBER (04/2004)

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C2.2# - MINIMUM PIECE SIZE FOR SAWTIMBER (02/2009)

Purchaser is not required to pay for or remove minimum sawtimber pieces as described in A2 if said pieces have a net scale of less than 20 board feet.

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

Cutting Unit/ Subdivision/Area/P ayment Unit	Tree Paint Color	Designation or Specification
Sale Area	BLUE	<u>Roadside 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.
Roadside Hazard and Salvage Units: 500-508	BLUE	<u>Individual Tree Mark</u> . Individual trees are designated with a band at breast height and two stump marks in the specified paint color.
Sale Area	ORANGE	<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 two "W"s on opposite sides of the tree at or above DBH along with two butt marks in the specified paint color shall be left uncut. In event such trees are destroyed in Purchaser's Operations, Forest Service may designate alternate trees to be saved.
Sale Area	BLACK	<u>Marked Out Trees</u> . When it is necessary to delete previously marked trees, an unique tree marking paint color will be marked over or adjacent to the original mark, but will not obscure the original marking paint color and the unique tree marking paint color are not Included Timber.
Units: 100-102, 104-109, 112-118, 120, 122, 133, 144, 155, 166, 177, 188	N/A	<u>Designation by Damage Class, C2.353#</u>

Subdivision/Payment Unit and Cutting Unit Boundary Designation Table

<u>Subdivision/Payment Unit</u>	<u>Boundary Paint Color</u>	<u>Boundary Designation</u>
Salvage Units: 100-102, 104-109, 112-118, 120, 122, 133, 144, 155, 166, 177, 188	ORANGE	Unit boundaries have been designated with BLUE solid flagging and have been marked with ORANGE paint above and below stump height. Boundary trees are painted with a stump mark and three vertical stripes painted on the boundary tree facing into the treatment unit and a vertical stripe on each side of the same tree showing the direction the harvest unit boundary travels. Boundaries are not painted along existing roads.
Sale Area	One ORANGE Dot	Non-treatment Stream course Protection zone is designated with BLUE and WHITE striped flagging and one ORANGE dot painted at DBH and is shown on the sale area map, facing into the mechanical treatable portion of the unit. Boundaries are shown on the sale area map.
Sale Area	Two ORANGE Dot	Special Erosion Prevention Treatment Zones have been designated with BLUE and WHITE striped flagging and two ORANGE dots at or above breast height facing into the non-Riparian Conservation Area portion of the unit. Boundaries are shown on the sale area map.
Roadside Hazard Treatment Units: 500-508	N/A	Unit boundaries have not been designated. All cut trees have been Marked in BLUE and are located within 150 feet of Forest Service Roads.

C2.353# - DESIGNATION BY DAMAGE CLASS (04/2004)

Within Subdivision(s) or cutting unit(s) Salvage Units 100-102, 104-109, 112-118, 120, 122, 133, 144, 155, 166, 177, and 188., as shown on Sale Area Map, the following criteria are used to designate trees and other products for cutting and removal:

(a) Included timber will be determined for removal using Fire-injured Tree Marking Guidelines based on Probability of Mortality.

A probability of 0.5 (50%) will be used for determining trees for removal within Designation by Damage Class Salvage Units 100-102, 104-109, 112-118, 120, 122, 133, 144, 155, 166, 177, and 188 inside of the 150 foot road strip.

A probability of 0.7 (70%) will be used for determining trees for removal within Designation by Damage Class Salvage Units 100-102, 104-109, 112-118, 120, 122, 133, 144, 155, 166, 177, and 188 outside of the 150 foot road strip.

See attached Table A for Fire-injured Probability of Mortality Guidelines.

(b) Additional trees to be cut, if any, are designated for cutting if Marked with N/A paint.

(c) Cutting unit boundaries and trees that shall be left uncut are Marked with N/A paint.

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).

Hog Fire Salvage Reoffer

Fire-injured Probability of Mortality Guide

Reference

Probability of Mortality will be determined based on percent crown length killed per species by diameter class.

A probability of 0.5 (50%) will be used for determining trees for removal within Designation by Damage Class Salvage Units 101, 102 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, and 120 inside of the 150 foot road strip.

A probability of 0.7 (70%) will be used for determining trees within Designation by Damage Class Salvage Units 1, 2, 3, 4, 5, 6, 7, 8, and 500 outside of the 150 feet road strip.

Ponderosa Pine: percent crown length killed and DBH (post-bud break)									
Probability of Mortality	.10	.20	.03	.40	.50	.60	.70	.80	.90
	Percent Crown Length Scorch								
DBH range									
10" - <30"	25	35	40	45	50	55	60	65	70
30" - 40"			10	15	25	30	40	45	60
>40" - 50"	--				10	15	25	30	45

Sugar Pine percent crown length killed and DBH									
Probability of Mortality	.10	.20	.03	.40	.50	.60	.70	.80	.90
	Percent Crown Length Scorch								
DBH range									
10" - 60		30	40	50	50	55	60	65	70

White fir: percent crown length killed and DBH									
Probability of Mortality	.10	.20	.03	.40	.50	.60	.70	.80	.90
	Percent Crown Length Scorch								
DBH range									
10" - 35"	50	60	65	70	75	80	80	85	90
>35" - 60"	--	35	45	50	60	65	70	75	80

Incense Cedar: percent crown length killed and DBH									
Probability of Mortality	.10	.20	.30	.40	.50	.60	.70	.80	.90
	Percent Crown Length Scorch								
DBH range									
10" - 60"	65	70	75	80	85	85	90	90	95

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.

C5.31# - 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.

C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)
 Contract Road Maintenance Requirements Summary

TABLE A

Road No.	Termini		Miles	Applicable PreHaul Road Maintenance Specifications							
	From	To		T802	T803	T804	T805	T806	T807	T809	T810
29N09Y	Jct Hwy 36	End of Road	1.50		P				P		
30N03	Jct Hwy 44	Jct Road 30N03C	5.64				P				
30N03B	Jct Road 30N03	End of Road	0.92		P				P		
30N03C	Jct Road 30N03	End of Road	1.21								
30N03E	Jct Road 30N03	End of Road	0.19		P				P		
30N82	Jct Road 30N03	Unit Boundary	2.75						P		
30N84	Jct Hwy 44	End of Road	2.38						P		
30N84A	Jct Road 30N84	End of Road	0.12		P				P		

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

Road No.	Termini		Miles	Applicable During Haul Road Maintenance Specifications							
	From	To		T802	T803	T804	T805	T806	T807	T809	T810
29N09Y	Jct Hwy 36	End of Road	1.50					P			
30N03	Jct Hwy 44	Jct Road 30N03C	5.64				P	P			
30N03B	Jct Road 30N03	End of Road	0.92					P			
30N03C	Jct Road 30N03	End of Road	1.21					P			
30N03E	Jct Road 30N03	End of Road	0.19					P			
30N82	Jct Road 30N03	Unit Boundary	2.75					P			
30N84	Jct Hwy 44	End of Road	2.38					P			
30N84A	Jct Road 30N84	End of Road	0.12					P			

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

Road No.	Termini		Miles	Applicable Post Haul Road Maintenance Specifications							
	From	To		T802	T803	T804	T805	T806	T807	T809	T810
29N09Y	Jct Hwy 36	End of Road	1.50		P						
30N03	Jct Hwy 44	Jct Road 30N03C	5.64	P	P		P			P	
30N03B	Jct Road 30N03	End of Road	0.92		P					P	P

Road No.	Termini		Miles	Applicable Post Haul Road Maintenance Specifications							
	From	To		T802	T803	T804	T805	T806	T807	T809	T810
30N03C	Jct Road 30N03	End of Road	1.21		P						
30N03E	Jct Road 30N03	End of Road	0.19		P						
30N82	Jct Road 30N03	Unit Boundary	2.75	P	P						
30N84	Jct Hwy 44	End of Road	2.38	P	P					P	
30N84A	Jct Road 30N84	End of Road	0.12		P						

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

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

Table A

<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 < 4 > 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>

Water Supply Deposits	<p>If Purchaser utilizes the water site located at Bogard Well (T32N, R8E, Section 33) 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="435 457 1429 682"> <thead> <tr> <th data-bbox="435 457 639 552">Activity</th> <th data-bbox="639 457 841 552">Unit of Payment</th> <th data-bbox="841 457 1036 552">Unit Cost</th> <th data-bbox="1036 457 1230 552">Total Cost</th> <th data-bbox="1230 457 1429 552">Time of Payment</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 552 639 682">Dust Abatement</td> <td data-bbox="639 552 841 682">1000 gallons</td> <td data-bbox="841 552 1036 682">\$1.39</td> <td data-bbox="1036 552 1230 682">As Used</td> <td data-bbox="1230 552 1429 682">After Use</td> </tr> </tbody> </table>	Activity	Unit of Payment	Unit Cost	Total Cost	Time of Payment	Dust Abatement	1000 gallons	\$1.39	As Used	After Use															
Activity	Unit of Payment	Unit Cost	Total Cost	Time of Payment																						
Dust Abatement	1000 gallons	\$1.39	As Used	After Use																						
Surface Replacement Deposits	<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 style="text-align: center;">SURFACE REPLACEMENT DEPOSIT SCHEDULE</p> <table border="1" data-bbox="435 1081 1429 1354"> <thead> <tr> <th data-bbox="435 1081 609 1134">Road No.</th> <th data-bbox="609 1081 857 1134">From</th> <th data-bbox="857 1081 1105 1134">To</th> <th data-bbox="1105 1081 1243 1134">Miles</th> <th data-bbox="1243 1081 1429 1134">Rate</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 1134 609 1186">29N09Y</td> <td data-bbox="609 1134 857 1186">Jct Hwy 36</td> <td data-bbox="857 1134 1105 1186">End of Road</td> <td data-bbox="1105 1134 1243 1186">1.50</td> <td data-bbox="1243 1134 1429 1186">0.99</td> </tr> <tr> <td data-bbox="435 1186 609 1239">30N03</td> <td data-bbox="609 1186 857 1239">Jct Hwy 44</td> <td data-bbox="857 1186 1105 1239">Jct Road 30N03C</td> <td data-bbox="1105 1186 1243 1239">5.64</td> <td data-bbox="1243 1186 1429 1239">0.99</td> </tr> <tr> <td data-bbox="435 1239 609 1291">30N03C</td> <td data-bbox="609 1239 857 1291">Jct Road 30N03C</td> <td data-bbox="857 1239 1105 1291">Native</td> <td data-bbox="1105 1239 1243 1291">0.52</td> <td data-bbox="1243 1239 1429 1291">0.99</td> </tr> <tr> <td data-bbox="435 1291 609 1354">30N84</td> <td data-bbox="609 1291 857 1354">Jct Hwy 44</td> <td data-bbox="857 1291 1105 1354">Native</td> <td data-bbox="1105 1291 1243 1354">0.06</td> <td data-bbox="1243 1291 1429 1354">0.99</td> </tr> </tbody> </table> <p style="text-align: center;">Sale Area Average Rate: \$0.99 / MBF</p>	Road No.	From	To	Miles	Rate	29N09Y	Jct Hwy 36	End of Road	1.50	0.99	30N03	Jct Hwy 44	Jct Road 30N03C	5.64	0.99	30N03C	Jct Road 30N03C	Native	0.52	0.99	30N84	Jct Hwy 44	Native	0.06	0.99
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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: CA1 - No operations are permitted within Control Areas for Cultural Resources. Cultural Resource Control Areas are flagged with RED and WHITE striped flagging and/or posted with RED plastic signs labeled CA. Signs are posted on the perimeter of the controlled area facing into the treatment unit.

Wildlife and Botanical Protection Measures: N/A

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

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

Table A

Subdivision/ Area/Unit	Conditions of Operation	Purpose
Sale Area	<p>Included Timber must be removed from the Sale Area within: Four weeks of felling from March 1 to June 30 Six weeks of felling from July 1 to September 30. Eight weeks of felling from Oct 1 to Dec 31</p> <p>If the Forest Service agrees in writing to allow Included Timber to remain on site from the end of the Normal Operating Season to March 1, material must be removed from the Sale Area before June 1.</p>	Control of slash breeding insects and/or to capture full value of green material.
Sale Area	<p>Gray wolf Limited Operating Period (LOP): At this time there are no confirmed Gray wolf detections within or near the sale area. If den sites or pup rendezvous sites are discovered within vicinity of the sale area an LOP from March 1 through August 15 will be imposed. The LOP will encompass a 1 mile radius from discovered sites. The LOP may be lifted if surveys indicate no denning activity is taking place.</p>	Protection of Gray wolf.
Sale Area	Purchaser shall complete felling and substantially complete removal of included products in one subdivision before entering another subdivision, unless otherwise agreed in writing.	Needed to improve control of operations.

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**

TABLE A

Treatment Method and Applicable Map Symbol	Felling, Bucking and Limbing Specifications
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 <u>20</u> inches DBH shall be skidded to agreed landing locations prior to limbing, bucking, and lopping. Trees larger than or equal to <u>20</u> inches DBH shall be bucked into two or more pieces with the butt portion being no longer than <u>41</u> 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 Controlled Areas, Improvements, Roads, Survey Monuments, Stream Courses , and 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.
Maximum Log Length	N/A

Minimum Stump Height "MIN"	Unit/Subdivision	Minimum Stump Height (inches)	Purpose or Reason
	ALL	3"	<ol style="list-style-type: none"> 1. Facilitate timber accountability. 2. Lessen the risk of fire starting from the cutting saw operating in the duff and creating sparks when rocks are struck.

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

Ground-Based Skidding Table - C6.42#

TABLE A

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	<p>Products shall be skidded with leading end clear of ground.</p>
ENDL	<p>Endlining shall not be required for distances in excess of <u>60</u> feet uphill, and <u>120</u> feet downhill.</p>
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>15</u> feet for bunching trees, capable of severing, lowering and placing trees up to <u>20</u> inches diameter at stump height on the ground prior to skidding. Such equipment must be capable of operating on slopes up to <u>20</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 and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</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

Table A

<u>Vegetative Soil Stabilization</u> N/A
<u>Special Erosion Prevention Measures</u> 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.
<u>Soil Scarification</u> N/A
<u>Backbladding</u> N/A
<u>Tillage</u> N/A

C6.62# - SITE SPECIFIC WETLANDS PROTECTION MEASURES (07/2001)

Measures needed to protect wetlands identified on the Sale Area Map or on the ground include:

Equipment will not operate within wetland buffers as identified on the ground and on the Sale Area Map. Wetland buffers are identified on the ground with BLUE and WHITE striped flagging and one painted ORANGE dot at DBH facing into the unit as described in C2.35# Designation of Timber, Cutting Unit Boundaries, and Subdivision/Payment Unit Boundaries (06/2012). Unit boundaries located adjacent to identified wetlands will serve as the limits of the Wetlands Protection Buffer. Included timber shall be directionally felled away from wetland.

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 using the following symbols:

Slash Treatment Methods

<u>Symbol</u>	<u>Method</u>	<u>Definition</u>
DECK	"Decking" large material	Logging Slash 14 inches or larger in large end d.o.b. and 10 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.

UNIT AND SUBDIVISION TREATMENT SPECIFICATIONS.

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 **10** feet prior to piling. Maximum width of tractor, with brush rake attached, shall not exceed **N/A** inches. Machine Piling is not required on areas where use of tractors would cause undue damage to residual timber or where slopes exceed **35** 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 **4** feet in height or greater than **15** feet in height. Material extending three feet or more outside the edge of a pile shall be trimmed. An **8** 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.

	<i>SLASH TREATMENT</i>	
<i>Subdivision or Unit No</i>	<i>Specified Method</i>	<i>Prohibited Method</i>
N/A		

LANDINGS AND DISPOSAL SITES. Unutilized logs accumulated at landings and disposal sites shall be Decked by Purchaser for disposal by Forest Service. The maximum height of decks is shown in the following table. Other slash

accumulated at landings and disposal sites shall be kept separate from unutilized logs and treated by the method shown in the following table.

		SLASH TREATMENT	
	Subdivision or Unit No.	Specified Method	Maximum Height of Decks
<u>Landings</u>	ALL	MACH/DECK	15'
<u>Disposal Sites</u>	N/A	N/A	N/A

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 Juncitons (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.

C6.815 - THIRD PARTY SCALING SERVICES (04/2004)

Notwithstanding the requirement for Forest Service or parties under contract to Forest Service to provide Scaling services under B6.81, Scaling designated in A10 shall be conducted by a third party Scaling organization approved by Forest Service. Scaling shall be done in accordance with A9 and Purchaser shall bear costs for Scaling service.

In the event third party Scaling service is suspended for causes such as strikes, termination of third party's approval to Scale National Forest logs by Forest Service, or Purchaser's failure to pay third party Scaling costs, hauling operations shall be suspended until agreed alternate Scaling services are provided or service by third party is resumed.

When an approved alternate Scaling location pursuant to B6.811 does not have an approved third party scaling organization as a commonly used Scaling services provider, Forest Service or parties under contract to Forest Service shall provide Scaling services at the approved alternate location. In such an event, the cost of waived third party Scaling listed in A10 shall be charged to Timber Sale Account.

If Forest Service and Purchaser agree in writing that another party under contract to Forest Service will perform Scaling, the contract will be modified to include C6.816 and Timber Sale Account will be charged for such Scaling.

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

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

Table A

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

<u>A. Fire Tools and Equipment</u>	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.
<u>B. Fire Extinguishers</u>	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.
<u>C. Spark Arresters and Mufflers</u>	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.

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.

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 Leve l	1000 Feet	2000 Feet	3000 Feet	4000 Feet	5000 Feet	6000 Feet	7000 Feet	8000 Feet	9000 Feet	10000 Feet											
55	179	23	174	23	169	23	165	22	161	22	157	22	153	22	150	21	146	21	142	21	139	21
70	175	23	171	23	166	22	162	22	158	22	154	22	150	21	147	21	143	21	139	21	136	20
85	171	23	168	23	163	22	159	22	155	22	151	21	147	21	144	21	140	21	136	20	133	20
100	168	23	164	23	159	22	155	22	152	22	148	21	144	21	141	21	137	20	133	20	131	20
P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I

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.

(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 propellant.
4. The unit shall be capable of being completely recharged within 10 minutes.
5. When used on cable yarding landings, the unit shall be outfitted for immediate attachment to carriage and transported without damage to the unit.

Fire extinguishers required for Hot Saws, Masticators and similar equipment identified in Section 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.

M. 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

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

PROJECT ACTIVITY LEVEL TABLE

Level	Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.
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> <ul style="list-style-type: none"> a) Loading and hauling logs decked at approved landings. b) Loading and hauling chips stockpiled at approved landings. c) Servicing equipment at approved sites. d) Dust abatement, road maintenance (Chainsaw use prohibited), culvert installation within cleared area, chip sealing, paving, earth moving or rock aggregate stock pile loading and installation (does not include pit or quarry development). e) Chainsaw and log processing operations associated with loading logs or other forest products at approved landings. <p>2. Hot Saws or Masticators may operate until 1:00 PM; provided that:</p> <ul style="list-style-type: none"> a) A tractor or other equipment with a blade capable of constructing fireline is on or adjacent to the active landing or within ¼ mile of the operating equipment. This piece of equipment shall have effective communication with the Hot Saw or Masticator. b) Any additional restrictions specified by the Forest. <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

	<ul style="list-style-type: none"> • 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>
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>

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 N/A 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.