

Sale Name: Six

CT2.11# - TIMBER SUBJECT TO AGREEMENT (06/1972)

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

Species	Product
Ponderosa Pine Dead	Sawtimber
Ponderosa Pine	Pulpwood

that shall be Included Timber upon written agreement.

CT2.355# - INDIVIDUAL TREES (CUT TREE MARKING) (02/2002)

In payment unit(s) 1, 2, 3, 4, 6, 7, 8 shown on the Sale Area Map individual trees to be cut have been Marked using Blue paint.

The boundaries of areas where individual trees are marked to be cut are designated by Orange Verical Lines Facing into the Unit and to the next boundary tree. Trees used for boundary designation are not to be cut.

CT4.211 - DOWNPAYMENT (06/2007)

The downpayment amount shown in AT15 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to BT9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale is shown on Timber Sale Account to have been cut, removed, and paid for, or (b) the estimated value remaining to be cut and removed, as shown on Timber Sale Account, is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value remaining to be cut and removed, as shown on Timber Sale Account, is equal to or less than the amount of the downpayment. For lump sum timber sales, the downpayment may be applied to payment for release of the single payment unit.

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).

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CT4.212 - TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)

Notwithstanding BT4.211 or CT4.211, 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 scheduled 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.

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CT4.4 - 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, 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 and road maintenance deposits;
- (ii) Cooperative work at rates established by specific agreement under BT4.218;
- (iii) Damages pursuant to BT9.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to BT4.22;
- (vi) Periodic payments pursuant to BT4.213;
- (vii) Extension Deposits pursuant to BT4.217; 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 BT9.3. 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.

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CT5.12# - 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.

Restricted Road List CT5.12#

Restricted Road List

Road Number	Road Name	Termini		Description of Restrictions
		From	To	
All other roads	All other roads	ALL	ALL	Operations permitted only with dry or frozen conditions.
626, 626A, 141		ALL	ALL	Keep Open to the Public. Do Not impede traffic flow.

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CT5.31# - 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.

CT5.31# - Road Maintenance Requirements (09/2004)

Six Timber Sale
August 25th 2014

Road	Termini		Miles	Road ML	Applicable Pre-haul Road Maintenance Specifications*					Remarks
	From	To			T-803	T-804	T-806	T-810	T-811	
4162Q	NFSR 4162P	0.5	0.5	1		P				ML1 to be opened
4162P	NFSR 626	NFSR 4162N	1.8	1		P				ML1 to be opened
4314L	NFSR 4162P	0.12	0.12	1		P				ML1 to be opened
4314M	NFSR 4162P	0.21	0.21	1		P				ML1 to be opened
4162S	NFSR 4162P	0.64	0.64	1		P				ML1 to be opened
4174T	NFSR 4174U	0.1	0.1	1		P				ML1 to be opened
4174U	NFSR 4162N	0.68	0.68	1		P				ML1 to be opened
4174V	NFSR 4162N	0.4	0.34	1		P				ML1 to be opened
4162N	NFSR 626	2.6	2.6	1		P				ML1 to be opened
626A	NFSR 626	2.0	2.0	2						
626	NFSR 141	2.2	2.2	2						

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

*Road Maintenance Specification T-G is required on all road work

Road	Termini		Miles	Road ML	Applicable During-haul Road Maintenance Specifications*					Remarks
	From	To			T-803	T-804	T806	T-810	T-811	
4162Q	NFSR 4162P	0.5	0.5	1						
4162P	NFSR 626	NFSR 4162N	1.8	1						
4314L	NFSR 4162P	0.12	0.12	1						
4314M	NFSR 4162P	0.21	0.21	1						
4162S	NFSR 4162P	0.64	0.64	1						
4174T	NFSR 4174U	0.1	0.1	1						
4174U	NFSR 4162N	0.68	0.68	1						
4174V	NFSR 4162N	0.4	0.34	1						
4162N	NFSR 626	2.6	2.6	1						
626A	NFSR 626	2.0	2.0	2	P					One Blading Minimum
626	NFSR 141	2.2	2.2	2	P					One Blading Minimum

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

*Road Maintenance Specification T-G is required on all road work

Road	Termini		Miles	Road ML	Applicable Post-haul Road Maintenance Specifications*					Remarks
	From	To			T-803	T-804	T806	T-810	T-811	
4162Q	NFSR 4162P	0.5	0.5	1						P
4162P	NFSR 626	NFSR 4162N	1.8	1						P
4314L	NFSR 4162P	0.12	0.12	1						P
4314M	NFSR 4162P	0.21	0.21	1						P
4162S	NFSR 4162P	0.64	0.64	1						P
4174T	NFSR 4174U	0.1	0.1	1						P
4174U	NFSR 4162N	0.68	0.68	1						P
4174V	NFSR 4162N	0.4	0.34	1						P
4162N	NFSR 626	2.6	2.6	1						P
626A	NFSR 626	2.0	2.0	2	P					One Blading
626	NFSR 141	2.2	2.2	2	P					One Blading

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CT5.46 - SNOW REMOVAL (11/1986)

Snow removal shall be done in a manner to preserve and protect the roads, to the extent necessary, to insure safe and efficient transportation of timber and to prevent erosion damage to roads, streams, and adjacent lands.

1. Description. Snow removal work by Purchaser shall include:

- a. Removal of snow from entire road surface width including turnouts.
- b. Removal of snow slides, earth slides, fallen timber, and boulders that obstruct normal road surface width.
- c. Removal of snow, ice, and debris from ditches and culverts so that the drainage system will function efficiently at all times.

2. Performance. All items of snow removal shall be done currently as necessary to ensure safe, efficient transportation. Work shall be done in accordance with the following minimum standards of performance. Waivers of standards will not be given where circumstances will cause unacceptable and unavoidable damage to the road or other resource.

- a. Removal of material. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
- b. During snow removal operations, banks shall not be undercut nor shall gravel or other selected surfacing material be bladed off the roadway surface.
- c. Ditches and culverts shall be kept functional during and following roadway use.
- d. Snow berms shall not be left on the road surface unless written waivers are made for specific locations for traffic safety. Berms left on the shoulder of the road shall be removed following hauling completion and/or drainage holes shall be opened and maintained. Drainage holes shall be spaced as required to obtain satisfactory surface drainage without discharge onto erodible fills.
- e. Dozers shall not be used to plow snow on system roads without written approval of Forest Service.
- f. Snow shall not be removed to the road surface. A minimum two-inch depth must be left to prevent loss of surfacing and protect the road bed during snow removal operations. Written waivers may be made by Forest Service for specific locations where snow may be completely removed during plowing for traffic safety. Locations receiving a waiver will have a written agreement prepared prior to plowing that prescribes the timing and method of damage repair or surface replacement.

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CT6.24# - SITE SPECIFIC SPECIAL 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: All Cultural sites will be identified on the ground by flagging (Color to be determined and communicated by Sale Administrator). No mechanical equipment will be use within the flagged boundary. The Sale Administrator and/or Inspector(s) shall show Contractor the physical location of cultural sites in each unit prior to commencing work in that unit. The contractor or operators shall be responsible for the protection from damage by their actions of all the cultural resources so identified by the Forest Service within the affected area.

Wildlife and Botanical Protection Measures: Wildlife Timing restrictions are in place within 1/4 mile of this area from March 1st through August 31st. The timing restriction area is shown on the Contract Area Map by a Purple line and incorporates the southern half of Cutting Unit 8. No mechanical activity is allowed within this area during the timing restricitons.

Cave Resource Protection Measures: N/A

CT6.313# - TIMING OF SALE OPERATIONS (07/2009)

Unless otherwise agreed to in writing Purchaser's Operations shall be performed in accordance with the following table.

CT6.313# - TIMING OF SALE OPERATIONS

Summary of Timing of Logging Restrictions

Payment Unit #	Cutting Unit #	Type of Restrictions		
		Wildlife 1 (March 1 – Aug 31)	Wildlife 2 (March 1 – Sept 30)	BTL (Feb1 – June30)
1	1			X
2	2			X
3	3			X
4	4			X
6	6			X
7	7			X
8	8	X		X
ALL	ALL	Due to fire and insect concerns, from 04/15 Through 07/15 no more than 10 days' worth or 100 acres of skidding material will be accumulated. If at any point the 10 day / 100 acre threshold is reached cutting may be suspended. This requirement may be waived by written permission of the Timber Sale Contracting Officer.		

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CT6.4# - CONDUCT OF LOGGING (07/2009)

Unless otherwise agreed to in writing, Silvicultural prescriptions and land management objectives shall be conducted and accomplished by the requirements, methods and procedures in accordance with the following table.

CT6.4# - CONDUCT OF LOGGING

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Unless otherwise agreed to in writing, Silvicultural prescriptions and land management objectives shall be conducted and accomplished by the requirements, methods and procedures in accordance with the following table.

Conduct of Logging in Riparian or Stream Buffers

No skid trail crossings are permitted within the protected stream buffer. Designated stream crossings will be identified by the Sale Administrator and authorized by the hydrologist prior to implementation. All products will be cut and backed out without any turning in the protected stream buffers. Skidding must approach a tree and back out with no turning in the protected stream buffers. Avoid cutting trees along stream courses that provide for bank and soil stabilization. Protected stream buffers can range from 75'-150' depending on slope and soil type (as shown on the Sale area map).

CT6.4# - CONDUCT OF LOGGING	
TABLE-A	
Cutting Units	Conduct of Logging
ALL	1. No more than three payment units shall be released for cutting at one time. Before a fourth payment unit is released for entry, all contractual work must be completed and accepted in one of the three payment units previously released.
ALL	2. Whole trees shall be (skidded) (yarded) to landings.
ALL	3. The skid trail pattern shall be approved by Forest Service in advance of felling and major trails, including go-back trails, shall be flagged on the ground in advance of felling.
ALL	5. Trees shall be felled, insofar as safety permits, to angle in the direction of skidding.
ALL	6. Purchaser shall remove from National Forest administered lands products meeting utilization standards within 30 calendar days after felling of trees, unless written authorization to delay such removal is obtained from the Forest Service.
ALL	7. Tractor skid roads will be located, approved, (and constructed) in advance of falling.
ALL	8. Logs shall be skidded with the leading end free of the ground.
ALL	9. Tractor skid roads shall be no less than 150 feet apart, except where converging.
ALL	10. Trees designated for cutting and/or logs will be left as rub trees along skid trails/skyline corridors as needed to protect young growth and leave trees.
ALL	11. Log landings and transfer points shall be limited to existing roads and turnouts unless otherwise agreed to in writing.
ALL	12. Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources from unnecessary damage

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CT6.43 - PROTECTION OF PUBLIC IN RECREATION AREAS (03/1975)

For protection of National Forest interests and safety of general public, Purchaser's Operations shall be subject to the following restrictions:

- a. When Purchaser's Operations are in progress within safety zones, shown on Sale Area Map, and designated on the ground, Purchaser may be required to post warning signs in the area or maintain a watchman whose sole duty shall be to warn and advise public of any hazards present in area as a result of this sale.
- b. During periods of general recreation activity within Sale Area or vicinity, Forest Service may restrict hauling to days other than Saturdays, Sundays, and National holidays.

CT6.6 - EROSION PREVENTION AND CONTROL (08/1992)

Unless waived in writing, erosion prevention and control work, required by BT6.6 shall be completed within 15 calendar days after skidding operations related to each landing are 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. Damage resulting from Purchaser's operations, due to failure to perform required work, shall be repaired by Purchaser.

When not adequately protected from erosion by treatments such as out-sloping and cross draining or grass seeding, place lopped slash and logging debris in temporary roads, landings and skid trails.

CT6.601# - EROSION CONTROL SEEDING (02/1987)

Following completion of skidding and yarding operations in an area, Purchaser shall seed areas of exposed soil on skid trails, landings, firebreaks, and Temporary Roads where other erosion control measures described in BT6.6 will not result in satisfactory control of soil movement. Seed bed preparation shall consist of surface scarification on roads and landings sufficient for retention of seed.

Seed shall be broadcast evenly at the rate of 19 pounds of seed per acre. Application shall be during the period Within 15 days after use of skid trail or landing is no longer needed. unless otherwise approved. No application work shall be done during extremely windy or rainy weather, or when the ground is frozen or otherwise unsuitable.

The kinds and amounts of seed to be sown in terms of live pure seed shall be:

See Table A

Table A: Seed Mix amount CT6.601#

Seed Mix for elevations greater than 8,000 feet – Landings and Skid Trails Only	
Species	% seed mix
Arizona Fescue (<i>Festuca Arizonica</i>)	20
Mountain Brome (<i>Bromus marginatus</i>)	50
Mutton Grass (Poa fendleriana)	20
Junegrass (<i>Koeleria cristata</i>)	10
Totals	100

The Contractor shall provide documentation that the seed mixture is certified weed free. Upon written approval of the Contracting Officer or Sale Administrator the seeding requirements may be waived or the seed mixture may be modified.

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CT6.602 - TEMPORARY ROAD AND LANDING SCARIFICATION (11/1986)

Unless waived in writing by Forest Service on specific roads or landings, all landings and Temporary Roads constructed or used by Purchaser shall be scarified by Purchaser following use. Scarification shall be done to a depth of not less than four inches and must effectively prepare the ground for seeding.

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CT6.7# - SLASH TREATMENT (07/1999)

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 item (1) below.

Vegetative debris larger than 1 inch in diameter and 3 feet long resulting from Purchaser's Operations, other than Construction Slash, is Logging Slash. In Required Disposal Strip along permanent roads, in areas of Temporary Road construction outside of Clearcutting Units, and in fuelbreaks (CT6.71), both hardwood trees and coniferous trees smaller than the minimum d.b.h. in AT2, over 3 feet in height and damaged beyond recovery by Purchaser's Operations shall be cut and treated as Logging Slash. Measures to be taken by Purchaser for treatment of Logging Slash are set forth below and in following Subsections 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. Slash treatment plan may be made a part of the annual operating plan required in BT6.31.

Specified slash treatment methods for each cutting unit shall be shown on Sale Area Map and listed in the attached tables by the following symbols:

Slash Treatment Methods:

Method: BURYING Map Symbol: "Bury"

Definition and Specifications:

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.

Method: CHIPPING Map Symbol: "Chip"

Definition and Specifications:

Chippable Logging Slash up to 4 inches in diameter shall be processed through a chipping machine. Chips shall be scattered to a depth not exceeding 6 inches.

Method: REMOVING Map Symbol: "Remove"

Definition and Specifications:

Logging Slash shall be moved or hauled to locations shown on Sale Area Map and designated on the ground where it shall be piled.

Method: FELLING DAMAGED TREES Map Symbol: "Fell"

Definition and Specifications:

Damaged or destroyed trees are trees substandard because of size, which are over 3 feet in height, and/or species not included in AT2 over 3 feet in height, knocked down or damaged to the extent that mortality or serious deterioration will occur, and such trees partially pushed over so as to result in permanent lean and visible damage to the root system, all as a result of the Purchaser's operation. Such damaged or destroyed trees shall be felled and further treated by the slash treatment method specified for the area. Materials meeting the minimum piece specifications of AT2 will be utilized by the Purchaser according to

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BT2.2. Maximum stump height shall be that specified in AT6 or on the Sale Area Map.

Method: BUCKING & PILING (Small Material) Map Symbol: "Buck"

Definition and Specifications:

Logging Slash smaller than N/A inches and larger than 4 inches in large end diameter shall be bucked into lengths not to exceed N/A feet and left in place. Logging Slash 4 inches and smaller in large end diameter shall be hand Piled within Required Disposal Strip.

Method: DECKING LARGE MATERIAL Map Symbol: "Deck"

Definition and Specifications:

Logging Slash 4 inches or larger in diameter and 8 feet or more in length shall be Decked free of other slash by piling pieces parallel to each other.

Method: HAND PILING Map Symbol: "Hpile"

Definition and Specifications:

Logging slash smaller than 1/ inches in diameter and 1/ feet long shall be hand piled in accordance with the following specifications:

HAND PILING SPECIFICATIONS

LOCATION OF PILES: Piles shall be located within cleared areas of landings and Temporary Roads or within natural openings. The minimum spacing between edge of each pile and crown edge of adjacent live trees shall not be less than the average diameter of the pile.

Purchaser shall not be required to move slash more than 75 feet to meet the above pile location requirement.

Piles shall not be made below highwater mark of perennial or intermittent stream courses designated to be protected in accordance with BT6.5. Slash shall not be piled on or allowed to remain in drainage ditches of permanent roads.

CONSTRUCTION OF PILES. Piles shall be compact and dirt-free, with most small slash on the bottom to facilitate consumption during burning. Piles shall not exceed 10 feet in average diameter and pile height shall not be less than one-third the average pile diameter. All slash which protrudes 4-feet or more from outer edge of the pile shall be bucked off and placed on pile.

Method: MACHINE PILING Map Symbol: "Mpile"

Definition and Specifications:

Concentrations of logging slash, excluding scattered individual pieces, shall be machine piled by tractor equipped with brush rake as per Machine Piling Specifications.

Method: MACHINE PILING & LOPPING Map Symbol: "Mpile/lop"

Definition and Specifications:

Concentrations of slash marked on the ground by the Forest Service shall be machine piled by a tractor equipped with a brush rake as per Machine Piling Specifications. The remaining slash, not in

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concentrations, shall be lopped and scattered as per specification for "Lopping."

Machine Piling Specifications

Acceptable Equipment. Piling will be accomplished with a crawler tractor not to exceed overall width of N/A feet. Tractor will be equipped with a brush blade having teeth extending a minimum of 11 inches below the frame. The teeth shall number at least 7 and no more than 10. The teeth shall be of sufficient size and strength so that they shall not bend or break through normal slash piling.

Location of Piles. Piles shall be so located that burning will not damage standing live trees or physical improvements such as fences, poles, buildings, signs, tables, grills, and cattleguards. The minimum spacing between piles shall be equivalent to one and one-half the diameter of the adjacent pile.

If conditions make it impractical to locate piles where damage to live trees and physical improvements can be avoided, a space shall be cleared in a location designated by Forest Service.

Slash within partial cut areas and road construction clearings shall be moved to take advantage of previously constructed or natural clearings in order to minimize the construction of new clearings. Slash shall not be moved more than 120 feet to achieve the location requirement. Piles shall not be made on permanent roads, in drainage ditches, below high water marks of live streams, and in intermittent streamcourses.

Piles shall not be constructed within a 50 foot strip along the top edge of the cutting unit or within a 50 foot strip along the remaining edges of the unit.

Construction of Piles. Machine piles shall be compacted by pushing slash from all sides towards the center of the pile. A machine pile will not exceed an average diameter of 25 feet and pile height shall not be less than one-third the average diameter of the the pile. All slash which protrudes 4-feet or more from outer edge of the pile shall be bucked off and placed on pile.

Unmerchantable material may be left between piles to protect regeneration seedlings and for site protection purposes as specified in writing by Forest Service.

Piling shall be accomplished in a manner that will prevent the accumulation of dirt in the piles

Logs and tops from felled trees within leave groups of trees inside or outside the cutting unit shall be yarded out of such leave groups to approved locations and piled. Where there is danger of damaging leave trees, long material shall be endlined out of leave groups.

Method: COVERING PILES Map Symbol: "Cover"

Definition and Specifications:

All slash piles shall be covered with a durable waterproof covering furnished by Purchaser as approved by the Forest Service. The material shall be at least 6 feet in width. Piles shall not be less than one-third covered, with the covering extending not less than halfway down all sides. Pieces of burnable material shall be placed on top of the waterproof covering to keep it from blowing off the pile.

Method: SITE PREPARATION Map Symbol: "Mach"

Definition and Specifications:

In conjunction with machine slash piling, a minimum of N/A percent and maximum of N/A percent of the workable ground surface uniformly distributed over the unit area, shall be scarified down to bare mineral soil. Scarified ground is here defined as bare mineral soil in patches exceeding N/A feet by N/A feet.

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Method: SCATTERING Map Symbol: "Scat"

Definition and Specifications:

Purchaser shall remove all slash greater than N/A inches in diameter and/or N/A feet long, a minimum of N/A feet away from each leave tree N/A inches d.b.h. and larger. Slash shall be placed upslope from, or along the upslope from, or along the contour from, leave trees. Slash shall not be placed downslope from leave trees.

Method: LOPPING Map Symbol: "Lop"

Definition and Specifications:

Slash shall be treated by limbing or severing, or both, and scattered as necessary to place slash within (two or three) feet of the ground over entire area of cutting unit. Occasional slash which exceeds the maximum height, not to exceed 5 percent of slash to be lopped and scattered, is acceptable. When agreed in writing between Purchaser and Forest Service, crushing or chopping with mechanized equipment is permissible, where residual trees will not be excessively damaged and ground conditions are suitable.

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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).

(1) Treatment Along Permanent Roads. Permanent roads that require roadside slash treatment are listed in the attached table and shown on the 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, 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.

(a) Slash shall be treated by Scattering, Removing, Burying, Chipping, Piling, Bucking and Piling, Machine Piling or a combination of these methods as shown in the attached table. 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.

(b) Hardwood and coniferous trees within or extending over Required Disposal Strips and which have been partially knocked down by Purchaser's Operations shall be felled and treated as Logging Slash. Damaged trees which cannot be felled with reasonable safety may be pushed or pulled down.

(2) Treatment Along Temporary Roads. Outside of Clearcutting Units, all hardwood and coniferous trees felled or pushed over and trees damaged beyond recovery by Temporary Road construction shall be felled, limbed to a stem diameter 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 3/ feet. Such slash shall be Scattered free of soil to reduce concentrations unless treatment is required by another specified method.

(3) Landings and Disposal Sites. Unutilized logs accumulated at landings and disposal sites shall be Decked by Purchaser. Other slash accumulated at landings and disposal sites shall be kept separate from

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unutilized logs and treated by the method shown in the attached table.

(4) View and Special Management Units. Areas identified as "VIEW" on the Sale Area Map are Travel and Water Influence Zones and Special Management Units which include roads, recreation trails, streamsides, lakeshores, and other view areas. The "VIEW" boundaries are identified on the ground or a distance limitation is specified on the Sale Area Map. Primary treatment shall be by Removing, Burying, Chipping, Hand 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.

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The following tables, where applicable and filled in, summarize slash requirements:

TREATMENT ALONG PERMANENT ROADS (CT6.7#)
SLASH TREATMENT

See Table A

=====

LANDING, DISPOSAL SITES AND OTHER SLASH (CT6.7#)

See Table B

=====

PURCHASER UNIT SLASH RESPONSIBILITY (CT6.7#)

See Table C

Table A: Treatment Along Permanent Roads KT-GT.7#
Not Applicable

Table B: Landing, Disposal Sites and Other Slash

Landing Location	Requirements
All	Mpile

Table C: Contractor Unit Slash Responsibility

Unit	Requirements
ALL	Fell

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CT6.8 - MEASURING (03/2013)

Volume estimators used for quantity estimates in AT2 are listed below. Volume for trees added pursuant to BT2.1 and BT2.3, or other authorization hereunder, will be derived from the same volume estimators or from volume tables based on these estimators.

SPECIES	DATA SOURCE	APPLICATION
Ponderosa Pine	Eagar Recovery Study 1/	All Forests
Ponderosa Pine	Hann & Bare 2/	All Forests
Ponderosa Pine	Flewelling Profile Model 4/	All Forests
Aspen	Santa Fe/Carson 2/	All Forests
Spruce	Santa Fe/Carson/Lincoln 2/	All Forests
Corkbark Fir	Santa Fe/Carson/Lincoln 2/	All Forests
SW White Pine	Santa Fe/Carson/Lincoln 2/	All Forests
Douglas-Fir	Santa Fe/Carson 2/	Carson, Cibola, Kaibab, Santa Fe
Douglas-Fir 3/	Lincoln/Tonto 2/	Apache-Sitgreaves, Coconino, Coronado, Gila, Lincoln, Prescott, Tonto
White Fir	Lincoln 2/	Apache-Sitgreaves, Coconino, Coronado, Gila, Lincoln, Prescott, Tonto
White Fir	Santa Fe/Carson 2/	Carson, Cibola, Kaibab, Santa Fe

1/ Ponderosa Pine volume (sawtimber) estimators are derived from data collected in the Eagar Mill Recovery Study. Scribner Decimal C and cubic volume estimators are available from the Forest Supervisor or District Ranger.

2/ These volume (non-sawtimber) estimators and tables are published in the following documents:

Hann, David W. and B. Bruce Bare "Comprehensive Tree Volume Equations for major Species of New Mexico and Arizona: I. Results and methodology", USDA Forest Service research Paper INT-209, June 1978, 43 pp.

Hann, David W. and B. Bruce Bare "Comprehensive Tree Volume Equations for major Species of New Mexico and Arizona: II. Tables for Unforked Trees" USDA Forest Service Research Paper INT-210, November, 1978, 127 pp.

3/ Based on data obtained in the Fiscal Year 1987 Douglas-fir Volume Validation Project, predicted Douglas-fir Scribner Board Foot volume (from Hann and Bare equations using the Lincoln/Tonto Data Source) must be adjusted (multiplied) by a factor of 0.932. This is the equivalent of a 6.8% negative adjustment to the predicted volume.

4/ Flewelling, James W. and Lawrence M. Raynes 1993. Variable-shape stem profile predictions for western hemlock. Part I: Predictions from DBH and total height. & Part II: Predictions from DBH, total height, and upper stem measurements. Can. J. For. Res. Vol. 23. 1993.

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CT6.84 - ACCOUNTABILITY (04/1983)

Unless otherwise agreed in writing and prior to hauling from Sale Area, products shall be accounted for as follows:

The truck driver shall obtain a removal receipt furnished by Forest Service. Purchaser shall assign a competent individual at the landing to issue removal receipts for products removed from Sale Area. A duplicate copy or stub of such receipt shall be retained by Purchaser and delivered to Forest Service at periodic intervals. When products are in transit, the truck driver shall keep the original copy of the receipt in his possession and show it upon request or display it as evidence of his authority to remove products. The original removal receipt shall be surrendered at the unloading point or as requested by Forest Service.

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CT7.2 - SPECIFIC FIRE PRECAUTIONARY MEASURES (03/1991)

Purchaser shall provide the personnel, tools and equipment to take the following precautionary measures:

SMOKING AND LUNCH FIRE RESTRICTIONS

Purchaser shall prohibit smoking and building of camp and lunch fires by persons engaged in Purchaser's operations, except at established camps or in areas that Forest Service may designate. Smoking may be permitted at these designated areas only after all flammable material has been cleared to mineral soil. All fires and smoking materials shall be completely extinguished at end of lunch or smoking period.

FIRE TOOLS

Purchaser shall furnish and maintain; i.e., cutting edges sharp, handles sanded and tightly fitted, clean of rust and foreign material; fire tools to be used only for suppressing forest fires. Each logging operation shall be provided with one firefighting tool per man to equip 100 percent of the personnel engaged in Purchaser's operations. Approved firefighting tools are: double-bit axe; brushhook; pulaski; McLeod; and round-pointed, size 0 or larger lady shovel. The proper tool mix will be stipulated in the Timber Sale Fire Plan. These tools are required separate from, and in addition to, the tools required in the section, "Fire Tools on Equipment," and in CT7.21 Fire Guards. Fire tools for firefighting purposes for use of personnel engaged in all phases of the logging operations shall be located in the active operating area of the sale or as stated in the fire plan.

BURNING OF REFUSE

No camp refuse of slash or other debris, such as that resulting from clearing around camps or on right-of-way, shall be burned without the written consent of the Forest Service.

SPARK ARRESTERS AND MUFFLERS

Each internal combustion engine shall be equipped with a spark arrester qualified and rated under USDA Forest Service Standard (Spark Arrester Guide) 5100-1a or the latest revision of Society of Automotive Engineers "medium size engine, SAE recommended practice J350" unless it is:

- (a) Equipped with a turbin-driven exhaust supercharger such as the turbocharger. There shall be no exhaust bypass.
- (b) A multi-position engine, such as on power saws purchased after 6/30/77 which must meet the performance levels set forth in the Society of Automotive Engineers "multi-positioned small engine exhaust fire ignition standard, SAE recommended practice J335B" as now or hereafter amended. Those purchased prior to the above date shall be equipped with an approved spark arrester/muffler containing a 0.023 inch mesh screen in good condition.
- (c) A passenger-carrying vehicle or light truck, or medium truck up to 40,000 GVW, used on roads and equipped with a factory-designed muffler and an exhaust system in good working condition.
- (d) A heavy duty truck, such as a dump or log truck, or other vehicle used for commercial hauling, used only on roads and equipped with a factory designed muffler and with a vertical stack exhaust system extending above the cab.

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

POWERSAWS

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During periods of use, each powersaw operator shall have readily available for use one long-handled round-pointed shovel and one chemical-pressurized fire extinguisher of not less than 8-ounce capacity by weight. Muffler, extinguisher, and shovel shall be maintained in good working order at all times. Any fueling or refueling of a powersaw shall be done in an area which has been cleared of material which will carry fire. Powersaws shall be moved at least 10 feet from the place of fueling or refueling before starting.

FIRE TOOLS ON EQUIPMENT

Each internal combustion fuel carrying truck, loader, skidder, heavy truck, and tractor shall be provided with one long-handled round-pointed shovel, and one 5-pound capacity ABC dry chemical fire extinguisher. Passenger carrying vehicles, including light pickup trucks shall be equipped with one (1) long-handled round-pointed shovel and one (1) ABC chemical fire extinguisher not less than 2 1/2 pounds capacity. Shovels and fire extinguishers shall be so mounted as to be readily reached from the ground.

INSPECTION REQUIREMENTS FOR INTERNAL-COMBUSTION ENGINES

Each internal-Combustion motor vehicle or item of equipment shall be inspected and approved in advance of use by Forest Service.

Purchaser shall require that all persons engaged in Purchaser's operations submit all internal-combustion motors and equipment for inspection and approval prior to use in Purchaser's operations on National Forest lands. Vehicles and equipment not approved for use shall be repaired to meet existing standards, reinspected, and approved by Forest Service prior to use.

BLASTING

Use of fuses in blasting shall not be permitted. A long-handled round-pointed shovel and 5-gallon backpack pump with attached handpump filled with water shall be available at all times. During periods when Fire Precaution Plan B or C is in effect, a fire guard shall remain on duty for at least one hour after blasting is finished and shall be equipped with a shovel and backpack. Blasting is prohibited under Fire Precaution Plan D. (CT7.22)

TRACTOR LIGHTS

All crawler tractors and rubber-tired skidders suitable for fire suppression work, and with power source, shall be equipped with two (2) factory type headlights and one (1) backup light, or brackets mounted for portable self-contained battery operated lights. These portable lights shall be furnished and maintained by the Purchaser at a location agreed by the Forest Service.

CABLE YARDING

Tail and corner blocks shall be located to prevent cables from rubbing against trees, snags, and down logs. Areas adjacent to tail and corner blocks shall be cleared of flammable material within a 5-foot radius. One 5-gallon standard backpack water container (filled at all times and with handpump attached), one shovel, and one pulaski, shall be maintained within 10 feet of each block.

GAS AND OIL STORAGE AND SERVICE AREAS

The location of equipment service areas and gas and oil storage areas shall be approved in writing by Contracting Officer. All areas shall be cleared of brush, litter, grass or other flammable debris for a radius of 50 feet.

WELDING

An area within a 10 foot radius shall be cleared down to mineral soil before welding operations are

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started. Prior to welding, purchaser shall have available a round-pointed long-handled shovel, a 5-gallon backpack pump filled with water with attached hand pump, and a 5-pound fire extinguisher at each welding site. A fire guard will remain on duty for at least one (1) hour after welding is completed during periods when Fire Precaution Plan B or C is in effect. Welding is prohibited under Fire Precaution Plan D.

CT7.21 - FIRE GUARDS (11/1975)

Purchaser shall designate at least one representative to train and supervise each woodworking group of men in fire prevention, detection, and suppression. Each such representative shall be named in the fire plan.

To prevent, detect, and suppress fire, Purchaser shall provide a trained fire guard at each operating area where power-driven equipment has been operated during the day. The fire guards shall constantly perform their duties during operating hours and for three (3) hours after the woodwork stops for the day, when the Fire Precaution Plan is Plan B, C, or D (CT7.22).

Fire guard service on one operating area shall satisfy the requirements on adjacent areas if the travel time with available transportation is not in excess of ten (10) minutes to any of the other areas requiring such service.

Each fire guard shall be physically able, vigilant, and trained to prevent, detect, and report any fires and to promptly and efficiently take suppression action with available required firefighting equipment and men on any fire that starts on Sale Area. Each fire guard shall be equipped with a vehicle and a fire tool cache consisting of a cache box, 2 four-to-five gallon backpack pumps filled with water, 2 size 0 shovels, 2 Pulaskis, and 2 McLeod tools maintained in serviceable condition.

CT7.22 - EMERGENCY FIRE PRECAUTIONS (03/2013)

Purchaser will restrict operations in accordance with the attached Emergency Fire Precaution Schedule. The Contracting Officer shall inform the Purchaser of any changes in the Industrial Fire Precaution Plan. The procedure for the Contracting Officer to notify the Purchaser of a change shall be stated in the Fire Prevention and Control Plan required by BT7.1. The Contracting Officer may, after consultation with the Forest Supervisor, adjust the predicted Industrial Fire Precaution Plan for local weather conditions on Sale Area. Changes in the predicted Industrial Fire Precaution Plan shall be agreed to in writing.

See Table A

CT7.22 Emergency Fire Precautions

EMERGENCY FIRE PRECAUTION SCHEDULE	
FIRE RESTRICTION/CLOSURE “STAGE”	
“STAGED” RESTRICTION LEVELS	INDUSTRIAL FIRE PRECAUTION PLAN
NO RESTRICTIONS	A
STAGE I	B
STAGE II	C or D
PARTIAL/ FOREST CLOSURE **	D
RED FLAG WARNING (Issued by National Weather Service)	D

** Partial Forest Closure: Contract areas which are outside the boundaries of the partial forest closure may continue to operate under Industrial Fire Precaution Plan “C” operating criteria as agreed on upon between the CO and Contractor in writing. Contract areas within the boundaries of the proclaimed partial forest closure area are to operate under Industrial Fire Precaution Plan “D”.

Staged restrictions levels are determined by the Line Officer in conjunction with Fire Management Officer(s) and Contracting Officer(s). The process is a mix of quantitative and subjective measures which allows Line Officers a broad level of discretion considering local conditions and issues when deciding to implement fire restrictions and/or area closures.

INDUSTRIAL FIRE PRECAUTION PLAN – DESCRIPTIONS

A - Normal Fire Precautions. No Fire Guard required, except for welding and blasting operations.

B - Normal Fire Precautions, except designated areas for smoking and warming or cooking fires require a written permit. Contractor/permit holder will provide Fire Guard.

C - All power saws and mechanical fellers except for mechanical fellers equipped with hydraulic shears will shut down from 9:00 am until 8:00 pm Mountain Standard Time (10:00 am to 9:00 pm MDT), except chainsaws may be used from 9:00 am until 2:00 pm Mountain Standard Time (10:00 am to 3:00 pm MDT), for limbing on landings cleared to mineral soil. Loading is authorized to continue from 12:00 noon until 2:00 pm, Mountain Standard Time (1:00 pm to 3:00 pm MDT), on landings cleared to mineral soil. Log hauling trucks must be out of the contract area to a surfaced road by 2:00 pm, Mountain Standard Time (3:00 pm MDT). Shutdown from 12:00 noon until 8:00 pm Mountain Standard Time (1:00 pm to 9:00 pm MDT); all machine treatment of slash; mechanical equipment used for shearing, bunching, or de-limbing; skidding; cable yarding; blasting; welding; metal cutting; and clearing. Operations on mineral soil involving road excavation, watering, grading, surfacing, rock crushing, and/or other equipment maintenance may continue. No smoking, warming or cooking fires are permitted at any time. Contractor/permit holder will provide Fire Guard.

D - Shutdown all operations; except operations on mineral soil involving road excavation, watering, grading, gravel surfacing, and rock crushing may continue with special Forest Service permit. Blasting and welding are prohibited. Contractor/permit holder will provide Fire Guard.

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CT7.23 - COMMUNICATIONS (05/1989)

Purchaser shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Purchaser's headquarters. A radio-equipped fire patrolman vehicle will satisfy this requirement if in operation during the time required. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service shall accept a reasonable alternative location. The communication system shall provide prompt and reliable communications between Purchaser's headquarters (or above stated alternative) and Forest Service via commercial or Forest Service telephone. The communications system shall be operable during Purchaser's Operations in Fire Precautionary Period described in AT9 and during the time fire patrolman service is required.

In the event no other means of communications will provide for prompt and reliable reporting of a fire, the Contracting Officer may allow use of a Forest Service two-way radio or Forest Service frequencies for emergency use only. The use of Forest Service frequencies will be by a written memorandum of agreement between the Contracting Officer and Purchaser.

CT8.212 - 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 AT17. 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.

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CT8.66# (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 Subsection, 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 Subsection, Forest Service will not be liable for any Claim submitted by Purchaser relating to the termination.