

C2.35# - DESIGNATION OF TIMBER (Table A)

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

Timber Designation Table

Unit/ Subdivision/Area/P ayment Unit	Tree Paint Color	Designation or Specification
Sale Area	Green	<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.
	NA	<u>Individual Tree Mark</u> . Individual trees are designated for cutting only if Marked above and below stump height with the specified paint color.
Units 41, 42, 47, 48, 49, 50, 51, 53a&b, 54, 56, 58, 67, 68a&b, 69, 70, 71, 72a, 73, 74, 75, 76, 77, 78, 81, 82, 85a&b, 87, 89A&B, 90a,b,c, 91a&b, 92, 93	Orange	<u>Leave Tree Mark</u> . All live trees are designated for cutting unless Marked as leave trees. Leave trees are Marked above and below stump height with the specified paint color. Sale Area Map indicates areas plainly identified on the ground where leave trees are Marked to be left uncut.
	NA	<u>Salvage Area</u> . In addition to Roadside Hazard Trees, other dead and dying timber standing or down that meets the size specification in A2, may be designated for cutting in Salvage Areas shown on the Sale Area Map when Marked with the specified paint color in advance of felling other timber in the vicinity.

(con't)

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

	White "W" or signed	Wildlife Trees. Notwithstanding the designation for cutting under B2.31, B2.33, B2.34or B2.35, trees which are identified by standard Forest Service metal wildlife tree sign or painted with the specified paint color on the uphill and downhill side, shall be left uncut. In event such trees are destroyed in Purchaser's Operations, Forest Service may designate alternate trees to be saved.
	NA	Designation by Spacing C2.351#
	NA	Designation by Species and Diameter, C2.352#
	NA	Designation by Damage Class, C2.353#
	NA	Designation by Row Spacing, C2.354#

Subdivision/Payment Unit Boundary Designation Table

<u>Subdivision/Payment Unit</u>	<u>Boundary Paint Color</u>	<u>Boundary Designation</u>
All Units	Orange	<i>Diagonal strips (3) facing into the unit; one vertical stripe on each side of bole facing line and 2 or marks on the stump at ground level. Orange flasher tags facing unit and boundary lines.</i>

C5.31# - ROAD MAINTENANCE REQUIREMENTS (Table A)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		801	802	803	804	805	806	807	808	809	810
27N11	0.00	1.2	1.2			P							
27N11A	0.00	0.70	0.70			P							
27N11B	0.00	1.10	1.10			P							
27N11C	0.00	0.40	0.40			P							
27N11E	0.00	0.19	0.19			P							
27N11F	0.00	0.60	0.60			P							
27N11J	0.00	0.10	0.10			P							
27N11K	0.00	0.23	0.23			P							
27N11M	0.00	1.00	1.00			P							
27N11N	0.00	0.50	0.50			P							
27N12-1	0.00	0.88	0.88			P							
27N12-2	0.88	2.74	1.86			P							
27N12-3	2.74	4.17	1.43			P							
27N12-4	4.17	5.90	1.73			P							
27N12A	0.00	0.90	0.90			P							
27N12C	0.00	1.13	1.13			P							
27N12D	0.00	0.57	0.57			P							
27N12F	0.00	0.60	0.60			P							
27N13-1	0.00	2.80	2.80			P		P					
27N13-2	2.80	5.20	2.40			P							
27N13C	0.00	0.75	0.75			P							
27N13E	0.00	0.28	0.28			P							
27N32-1	0.00	1.00	1.00			P							
27N32-2	1.00	1.75	0.75			P							
27N32-3	1.75	3.00	1.25			P							
27N32E	0.00	0.38	0.38			P							
29N30-1	0.00	3.76	3.76	P									
29N30-2	3.76	6.58	2.82	P									
29N30-3	6.58	9.49	2.91										
29N30G	0.00	1.78	1.78			P							
29N30J	0.00	1.00	1.00			P							

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

C5.31# - ROAD MAINTENANCE REQUIREMENTS (Table A) (con't)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		801	802	803	804	805	806	807	808	809	810
27N11	0.00	1.20	1.20						P				
27N11A	0.00	0.70	0.70						P				
27N11B	0.00	1.10	1.10						P				
27N11C	0.00	0.40	0.40						P				
27N11E	0.00	0.19	0.19						P				
27N11F	0.00	0.60	0.60						P				
27N11J	0.00	0.10	0.10						P				
27N11K	0.00	0.23	0.23						P				
27N11M	0.00	1.00	1.00						P				
27N11N	0.00	0.50	0.50						P				
27N12-1	0.00	0.88	0.88						P				
27N12-2	0.88	2.74	1.86						P				
27N12-3	2.74	4.17	1.43						P				
27N12-4	4.17	5.90	1.73						P				
27N12A	0.00	0.90	0.90						P				
27N12C	0.00	1.13	1.13						P				
27N12D	0.00	0.57	0.57						P				
27N12F	0.00	0.60	0.60						P				
27N13-1	0.00	2.80	2.80						P				
27N13-2	2.80	5.20	2.40						P				
27N13C	0.00	0.75	0.75						P				
27N13E	0.00	0.28	0.28						P				
27N32-1	0.00	1.00	1.00						P				
27N32-2	1.00	1.75	0.75						P				
27N32-3	1.75	3.00	1.25						P				
27N32E	0.00	0.38	0.38						P				
29N30-1	0.00	3.76	3.76										
29N30-2	3.76	6.58	2.82										
29N30-3	6.58	9.49	2.91										
29N30G	0.00	1.78	1.78						P				
29N30J	0.00	1.00	1.00						P				

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

C5.31# - ROAD MAINTENANCE REQUIREMENTS (Table A) (con't)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Post haul Road Maintenance Specifications									
	From	To		801	802	803	804	805	806	807	808	809	810
27N11	0.00	1.20	1.20			P							
27N11A	0.00	0.70	0.70			P							
27N11B	0.00	1.10	1.10			P							
27N11C	0.00	0.40	0.40			P							
27N11E	0.00	0.19	0.19			P							
27N11F	0.00	0.60	0.60			P							
27N11J	0.00	0.10	0.10			P							
27N11K	0.00	0.23	0.23			P							
27N11M	0.00	1.00	1.00			P							
27N11N	0.00	0.50	0.50			P							
27N12-1	0.00	0.88	0.88			P							
27N12-2	0.88	2.74	1.86			P							
27N12-3	2.74	4.17	1.43			P							
27N12-4	4.17	5.90	1.73			P							
27N12A	0.00	0.90	0.90			P							
27N12C	0.00	1.13	1.13			P							
27N12D	0.00	0.57	0.57			P							
27N12F	0.00	0.60	0.60			P							
27N13-1	0.00	2.80	2.80			P							
27N13-2	2.80	5.20	2.40			P							
27N13C	0.00	0.75	0.75			P							
27N13E	0.00	0.28	0.28			P							
27N32-1	0.00	1.00	1.00			P							
27N32-2	1.00	1.75	0.75			P							
27N32-3	1.75	3.00	1.25			P							
27N32E	0.00	0.38	0.38			P							
29N30-1	0.00	3.76	3.76										
29N30-2	3.76	6.58	2.82										
29N30-3	6.58	9.49	2.91										
29N30G	0.00	1.78	1.78			P							
29N30J	0.00	1.00	1.00			P							

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

1. Road Maintenance work to be performed by the Purchaser.
2. Extraordinary Slide and Slump Repair for which the Purchaser has responsibility is the quantity in excess of 250 C.Y. per year for all roads.
3. Mandatory Pre-haul Maintenance - Only those prehaul maintenance items shown above will be mandatory. Unless agreed otherwise, prehaul maintenance work shall be completed on any portion of road prior to hauling on that portion (as required by C5.31# - Road Maintenance Requirements) and it shall be done in a manner that facilitate safe use of Forest Service roads.
4. Dust abatement shall be with water. If the Purchaser decides to use a heavy palliative, such use shall be agreed to prior application.
5. T-Specifications and description of temporary road construction and culvert replacement specifications are at the end of the Special Provisions section of this contract.

C5.35# - ROAD AND WATER SUPPLY USE (Table A)

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

Load Limitations	N/A
Existing Non-National Forest System Roads	Roads not shown on Sale Area Map may be used as Temporary Roads if there is agreement before use is started.
Snow Removal	<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	N/A

C5.35# - ROAD AND WATER SUPPLY USE (Table A) (con't)

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

Surface Replacement Deposits

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.

SURFACE REPLACEMENT DEPOSIT SCHEDULE

Road No.	From - To	Miles	Rate/Ton
27N11	0.00-1.20	1.20	\$0.01
27N11A	0.00-0.70	0.70	\$0.00
27N11B	0.00-1.10	1.10	\$0.01
27N11C	0.00-0.40	0.40	\$0.00
27N11E	0.00-0.19	0.19	\$0.00
27N11F	0.00-0.60	0.60	\$0.00
27N11J	0.00-0.10	0.10	\$0.00
27N11K	0.00-0.23	0.23	\$0.00
27N11M	0.00-1.00	1.00	\$0.00
27N11N	0.00-0.50	0.50	\$0.00
27N12-1	0.00-0.88	0.88	\$0.03
27N12-2	0.88-2.74	1.86	\$0.01
27N12-3	2.74-4.17	1.43	\$0.00
27N12-4	4.17-5.80	1.73	\$0.01
27N12A	0.00-0.90	0.90	\$0.00
27N12C	0.00-1.13	1.13	\$0.00
27N12D	0.00-0.57	0.57	\$0.00
27N12F	0.00-0.60	0.60	\$0.00
27N13-1	0.00-2.80	2.80	\$0.02
27N13-2	2.80-5.20	2.40	\$0.03
27N13C	0.00-0.75	0.75	\$0.00
27N13E	0.00-0.28	0.28	\$0.00
27N32-1	0.00-1.00	1.00	\$0.02
27N32-2	1.00-1.75	0.75	\$0.01
27N32-3	1.75-3.00	1.25	\$0.00
29N30-1	0.00-3.76	3.76	\$0.15
29N30-2	3.76-6.58	2.82	\$0.16
29N30-3	6.58-9.49	2.91	\$0.01
29N30G	0.00-1.78	1.78	\$0.00
29N30J	0.00-1.00	1.00	\$0.19

Sale Area Average Rate: \$0.23/Ton

When Purchaser elects to haul outside the Normal Operating Season during wet weather and/or winter conditions, the surface replacement deposits as shown above shall be **tripled** for all volume hauled during that time period. The Forest Service shall determine when the deposits will be increased based on the amount of precipitation received and/or the condition of the road sub-grade or surfacing.

C6.315# - SALE OPERATIONS SCHEDULE (Table A)

Schedule Pursuant To C6.315# - Sale Operations Schedule (8/2006)

<i>Subdivision/ Area/Unit</i>	<i>Conditions of Operation</i>	<i>Purpose</i>
Units 67, 68a, 68b, 70, 71, 77, 81, 82, 89a, 93	No noise generating activities permitted from February 1 through July 31	Protect NSO habitat
Units 85a, 85b	No noise generating activities permitted from March 1 through August 31	Northern Goshawk
Units 47, 67, 68a, 68b, 70, 76	Skidding may occur only when the top ten inches of soil are dry	Avoid erosion and compaction
Unit 47 end of 27N32 and 27N32G; and landing area west of unit on 27N32	Operations shall be limited to the end of the field season and blade the top layer of dirt to a location where is will not be disturbed.	Prevent spread of yellow starthistle
FR 29N30 (Route 30) at intersection with FR 27N30G and FR 27N32	Keep all equipment within the road travelway	Prevent spread of yellow starthistle

C6.41# - FELLING, BUCK, AND LIMBING (Table A)

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

Treatment Method and Applicable Map Symbol	Felling, Bucking and Limbing Specifications		
Limbing	Outside of construction clearings, Clearcutting Units and regeneration units, unless otherwise provided by B6.414, Purchaser shall, prior to skidding/yarding operations, cut exposed limbs from products which are to be skidded/yarded. Such limbing of stems shall be done to a top diameter of approximately NA inches, at which point the top shall be cut from the remainder of the stem.		
No Lop "No Lop"	Within units or subdivisions designated NO LOP on Sale Area Map, trees shall be skidded/yarded to agreed landing locations prior to lopping.		
Whole Tree Yarding "Whole"	Notwithstanding the requirements above, within units or subdivisions designated "Whole" on Sale Area Map, trees smaller than 24 inches DBH shall be skidded/yarded to agreed landing locations prior to limbing, bucking, and lopping. Trees larger than or equal to 24 inches DBH shall be bucked into two or more pieces with the butt portion being no longer than 40 feet prior to skidding/yarding. The butt log shall not 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 streamside management zones, trough, springs, roads 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.		
Treatment of Stumps "TS"	N/A		
Maximum Log Length	N/A		
Minimum Stump Height	Unit/Subdivision	Minimum Stump Height (inches)	Purpose or Reason
	All Units (if mechanized)	4	Product Accountability

C6.42# - GROUND BASED SKIDDING (Table A)Ground Based Skidding Table

Map Symbol	Requirements
TRAC	<p>Skid road pattern shall be agreed in advance of felling and main skid roads shall be flagged on the ground in advance of felling. Purchaser shall stage-log by felling and skidding Included Timber in two or more separate operations when necessary to prevent undue damage to the resources or residual stand. Needed tractor trails shall be constructed in advance of skidding.</p> <p>Products shall be end-lined as needed to protect resources or residual timber from unnecessary damage. The number of chokers shall be limited as necessary to avoid unnecessary damage to resources or residual timber. By agreement, tractors may be used to separate products to prevent stain.</p>
SUSP	Products shall be skidded with leading end clear of ground.
SPACE	Skid roads will average <u>120</u> feet from center to center, except where converging.
ENDL	Endlining shall not be required for distances in excess of <u>50</u> feet uphill, and <u>75</u> feet downhill.
MAX	Tractors used for skidding outside Clearcutting Units, regeneration units or other authorized clearings, shall be of the type (rubber-tired or track-laying) shown on the Sale Area Map and shall not exceed the overall width designated on Sale Area Map.
MH	<p>Purchaser shall cut Included Timber and move it to designated skid trails using equipment with a boom having an operating radius of at least <u>15</u> feet for bunching trees, capable of severing, lowering and placing trees up to <u>22</u> inches diameter at stump height on the ground prior to skidding. Such equipment must be capable of operating on slopes up to <u>35%</u>.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources from unnecessary damage.</p> <p>Trees which exceed capability of specified equipment may be felled, bucked and skidded in a manner consistent with the requirements of B6.41 - Felling and Bucking, C6.41# - Felling, Bucking, and Limbing requirements and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</p>

C6.42# - Ground Based Skidding (Table A) (con't)

CTL	NA
PB	NA
HCTL	NA

C6.6# - EROSION PREVENTION AND CONTROL (Table A)

SPECIFICATIONS PURSUANT TO C6.6# - EROSION PREVENTION AND CONTROL

Vegetative Soil Stabilization N/A

Special Erosion Prevention Measures N/A

Soil Scarification. N/A

Backblading N/A

Tillage N/A

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

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

Slash Treatment Methods

Symbol	Method	Definition
Buck-L	"Bucking Large Logging Slash"	N/A
Buck-P	"Bucking and Piling"	N/A
Bury	"Burying"	N/A
Chip	"Chipping"	N/A
Deck	"Decking" large material	N/A
Mach	"Machine Piling"	Concentrations of Logging Slash, excluding scattered individual pieces, shall be Machine Piled by tractor equipped with brush rake for disposal by Forest Service.
Pile	"Piling" small material	N/A
Remove	"Removing"	N/A
Scat 18" Scat 30"	"Scattering"	Logging Slash shall be scattered to reduce slash concentrations with slash being generally left within 18 or 30 inches of the ground as shown on Sale Area Map. Logging Slash shall be scattered into openings away from and without unnecessary damage to residual trees. All scattered logs shall be limbed, placed away from trees and positioned so they will not roll. When Scattering is specified, another method may be used by agreement.
Stack	"Stacking" small material	N/A

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) (con't)

View	"Visible Slash Treatment"	N/A
YUMD	"Yarding Unutilized Material-Decking"	N/A
YUME	"Yarding Unutilized Material-Exterior Boundary"	N/A
YUML	"Yarding Unutilized Material-Landing"	N/A
YUMR	"Yarding Unutilized Material-Remove"	N/A
Cover	"Covering Piles"	All piles shall be covered with a durable waterproof covering as approved by Forest Service. The material shall be at least six feet in width. Piles shall not be less than fifty percent covered, with the covering extending not less than half way down all sides. Pieces of burnable material shall be placed on top of the durable waterproof covering to keep the covering from blowing off the pile.
Fell	"Damaged Small Trees"	Unless treated under other provisions, all trees smaller than the minimum d.b.h. in A2, over 5 feet in height, and damaged beyond recovery by Purchaser's Operations shall be felled. Such trees shall be limbed to a stem diameter outside bark of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and shall be bucked into lengths not exceed 20 feet.
Fire-L	"Firelines"	N/A
Fuel-B	"Fuelbreaks"	N/A

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) (con't)

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

UNIT AND SUBDIVISION, SLASH TREATMENT SPECIFICATIONS.

SLASH TREATMENT		
Subdivision or Unit No.	Specified Method	Prohibited Method
All Units	Scat 18", Fell	XXX

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 Units	Machine, Cover	15
<u>Disposal Sites</u>	N/A		

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) (con't)

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 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 sized 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.

			<i>SLASH TREATMENT</i>	
<i>Road No.</i>	<i>Subdivision and/or Unit No. or Road Junctions (From To)</i>	<i>Width of Required Disposal Strip</i>	<i>Specified Method</i>	<i>Slash Larger Than Treatment Size Requirements of Specified Method</i>
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 length not exceed 5 feet. Such slash shall be Scattered free of soil to reduce concentrations unless treatment is required by another specified method.

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

<i>Subdivision, Payment Units, Roads and/or Road Segments</i>	<i>Additional Slash Treatment Requirements</i>
N/A	Yard all stem material to a top d.o.b. of 1 inch, from timber designated for cutting, with the following exception: broken portions of logs and tops less than 4 feet in length need not be yarded.
N/A	Broken ends of merchantable logs shall not be bucked off in the units.
N/A	Slash and Substandard Material accumulated at the landings shall be Decked or Machine Piled, in accordance with specifications above.
N/A	Material Accumulated at landings shall be considered as Timber Subject to Agreement under C2.11#, described as Substandard Material and may be removed and paid for a Purchaser's option.

SPECIFICATIONS PURSUANT TO C6.7# - SLASH TREATMENT (8/2006) (con't)

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

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

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

<p><u>A. Fire Tools and Equipment</u></p>	<p>Purchaser shall meet applicable parts of Section 4428 of the CPRC.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>All required fire tools shall be maintained in suitable and serviceable condition for fire fighting purposes</p>
<p><u>B. Fire Extinguishers</u></p>	<p>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.</p> <p>Skidders and tractors shall be equipped with a minimum 5-BC fire extinguisher.</p> <p>Fire extinguishers shall be mounted, readily accessible, properly maintained and fully charged.</p> <p>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.</p>

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A) (con't)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

<p>C. <u>Spark Arresters and Mufflers</u></p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p>D. <u>Power Saws</u></p>	<p>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.</p> <p>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.</p>
<p>E. <u>Fire Supervisor & Fire Patrolperson</u></p>	<p>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.</p> <p>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 the Forest Service as required under Sections I. <u>Reporting Fires</u> and L. <u>Communications</u>. This Fire Patrol is required on foot, unless otherwise agreed.</p> <p>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.</p>

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A) (con't)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

<p>F. <u>Seasonal Permits</u></p>	<p>Purchaser shall obtain written permits from Forest Service before allowing attended warming fires, burning, or blasting, subject to C7.22# - Emergency Precautions.</p>							
<p>G. <u>Clearing of Fuels</u></p>	<p>Purchaser shall clear away, and keep clear, fuels and logging debris as follows:</p> <table border="1" data-bbox="337 506 1360 947"> <tr> <td data-bbox="337 506 751 674"> <p>Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:</p> </td> <td data-bbox="751 506 1360 674"> <p>10 feet slope radius</p> </td> </tr> <tr> <td data-bbox="337 674 751 842"> <p>Tail or corner haulback blocks:</p> </td> <td data-bbox="751 674 1360 842"> <p>All running blocks on a cable yarding operation shall be located in the center of the area that is cleared to mineral soil at least 15 feet in diameter.</p> </td> </tr> <tr> <td data-bbox="337 842 751 947"> <p>Lines near, between or above blocks:</p> </td> <td data-bbox="751 842 1360 947"> <p>Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material.</p> </td> </tr> </table>		<p>Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:</p>	<p>10 feet slope radius</p>	<p>Tail or corner haulback blocks:</p>	<p>All running blocks on a cable yarding operation shall be located in the center of the area that is cleared to mineral soil at least 15 feet in diameter.</p>	<p>Lines near, between or above blocks:</p>	<p>Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material.</p>
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<p>H. <u>Smoking</u></p>	<p>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.</p> <p>Burning tobacco and matches shall be extinguished before they are properly disposed.</p>							

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A) (con't)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

	<p>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.</p> <p>(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.</p> <p>(3) A shut-off combination nozzle that meets the following minimum performance standards when measured at 100 P.S.I. at the nozzle:</p> <table border="1" data-bbox="477 793 1289 890"> <thead> <tr> <th></th> <th>G.P.M.</th> <th>Horizontal Range</th> </tr> </thead> <tbody> <tr> <td>Straight Stream</td> <td>10</td> <td>38 feet</td> </tr> <tr> <td>Fog Spray</td> <td>6-20</td> <td>N/A</td> </tr> </tbody> </table>		G.P.M.	Horizontal Range	Straight Stream	10	38 feet	Fog Spray	6-20	N/A
	G.P.M.	Horizontal Range								
Straight Stream	10	38 feet								
Fog Spray	6-20	N/A								
	<p>(4) Sufficient fuel to run pump at least 2 hours and necessary service accessories to facilitate efficient operation of the pump.</p> <p>(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.</p> <p>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#.</p>									
<p><u>K. Compressed Air Foam System (CAFS)</u></p>	<p>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:</p> <ol style="list-style-type: none"> 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. 									

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A) (con't)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

	<p>4. The unit shall be capable of being completely recharged within 10 minutes.</p> <p>5. When used on cable yarding landings, the unit shall be outfitted for immediate attachment to carriage and transported without damage to the unit.</p> <p>Fire extinguishers required for Hot Saws, masticators and similar equipment identified in Section B. above may be substituted with a 3 gallons CAFS.</p> <p>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.</p> <p>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#.</p>
<p>L. <u>Communications</u></p>	<p>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.</p> <p>A Citizen's Band (CB) radio is not acceptable communications.</p>

C7.2# - SPECIFIED FIRE PRECAUTIONS (Table A) (con't)

Specific Equipment Requirements and Fire Precautionary Measures Table - C7.2# (6/2012)

M. <u>Cable Yarding Tank Unit</u>	<p>When all or part of Included Timber will be yarded 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 the carriage.</p> <p>The unit shall meet the same requirements as specified for the tank truck, trailer or approved CAFS substitute.</p>
N. <u>Helicopter Yarding Fire Precautions</u>	<p>Purchaser shall provide and maintain fire equipment as follows:</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 (con't)

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

Project Activity Level Table

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
A	Minimum required by C7.2#.
B	1. Tank truck, trailer, or comparable 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 or metal after 1:00 PM, except by special permit.

C7.22# - EMERGENCY PRECAUTIONS (con't)

Project Activity Level Table

<p>Ev</p>	<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 • 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 the 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>
<p>E</p>	<p>The following activities may operate all day.</p> <ul 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>

C7.22# - EMERGENCY PRECAUTIONS (con't)

Ev Proposed Actions

- Rubber Tired Skidding
- Chipping on Landings
- Helicopter Yarding

- Fire Salvage

Description of Mitigation Measures

Fire Management Officer Concurrence

Date

Line Officer Approval

Date

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

Contracting Officer

Date

Purchaser/Contractor Rep.

Date