

C2.35# DESIGNATION OF TIMBER AND SUBDIVISION/PAYMENT UNIT BOUNDARIES

Table A

Unit/ Subdivision/Area/ Payment Unit	Tree Paint Color	Designation or Specification
Sale Area	Blue	<u>Roadside Hazard Tree</u> . Notwithstanding B2.32 all dead and unstable live trees which are leaning towards a road or are otherwise hazardous to a road, and are sufficiently tall to reach Purchaser's landings or the roadbed of National Forest System roads within Sale Area, shall be felled by Purchaser when Marked in the specified paint color above and below stump height by Forest Service in advance of felling any other timber in the vicinity. Pieces meeting Utilization Standards from such dead and unstable live trees shall be removed unless Purchaser is notified in writing that removal would cause unacceptable damage to areas requiring special protection such as residual timber, roads, administrative sites, streamside management zones, and areas identified on Sale Area Map or on the ground.
All Units	Blue	<u>Individual Tree Mark</u> . Individual trees are designated for cutting only if Marked above and below stump height with the specified paint color.
N/A		<u>Leave Tree Mark</u> . All live < > 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.
N/A		<u>Salvage Area</u> . In addition to Roadside Hazard Trees, other dead and dying timber standing or down that meets the size specification in A(T)2 (Page 1), 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.
Unit 28	White	<u>Wildlife Trees</u> . Notwithstanding the designation for cutting under B(T)2.31, B(T)2.33, B(T)2.34, or B(T)2.35, 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.
N/A		<u>Designation by Spacing C(T)2.351#</u>
N/A		<u>Designation by Species and Diameter, C(T)2.352#</u>
N/A		<u>Designation by Damage Class, C(T)2.353#</u>
N/A		<u>Designation by Row Spacing, C(T)2.354#</u>

Subdivision/Payment Unit Boundary Designation Table

<u>Subdivision/Payment Unit</u>	<u>Boundary Paint Color</u>	<u>Boundary Designation</u>
All Units	Orange	-Boundary line trees are Marked at eye level with three (3) vertical slash marks and a spot at ground level with the eye level marks facing into the interior of the subdivisions.

Sale Name: Oak Flat Timber

Page 145

C5.208# - TEMPORARY FACILITY INSTALLATION AND REMOVAL. Table A

<u>Location</u>	<u>Facility</u>	<u>Required Action</u>
Units 9 and 23	Temporary Roads	With an excavator, pull loose material that has been side cast during construction back onto the road bed and out-slope to reduce erosion and movement of the material down slope.
Unit 24	Temporary Road	With an excavator, pull loose material back onto the road bed to restore soil productivity.
	Landings	With an excavator, pull fill back and re-contour landings (estimated one to three landings on an estimated one-half acre) to restore soil productivity.

C5.31# - ROAD MAINTENANCE REQUIREMENTS.

Contract Road Maintenance Requirements Summary Table

Applicable Road Maintenance Specifications

Road	Termini		Miles	Applicable Road Maintenance Specifications				
	From	To		Prehaul	During Haul	During Haul	Post Haul	
					T803	T806		T803
16N12	16N10	16N11.1	0.80	N/A	P	P		P
16N11.1	16N12	16N11.2	0.30	N/A	P	P		P
16N11.2	16N11.1	16N11.3	1.70	N/A	P	P		P
16N11.3	16N11.2	unit 4	0.50	N/A	P	P		P
16N11E	16N11.2	UNIT 24	0.30	N/A	P	P		P
16N10.1	15N32	16N10.2	1.00	N/A	P	P		P
16N10.2	16N10.1	16N10.3	1.50	N/A	P	P		P
16N10.3	16N10.2	UNIT 9	3.70	N/A	P	P		P
16N02.1	16N10.2	16N02.2	0.50	N/A	P	P		P
16N02.2	16N02.1	UNIT 12	0.40	N/A	P	P		P
16N02A	16N02.1	UNIT 29	0.30	N/A	P	P		P
17N16	HWY 96	16N10.4	3.50	N/A	P	P		P
16N10.4	17N16	16N10.5	2.30	N/A	P	P		P
16N10.5	16N10.4	UNIT 14	0.50	N/A	P	P		P
17N11.1	7C01	MP 9.1	9.10	N/A	P	P		P
17N11.2	MP 9.1	UNIT 19	6.30	N/A	P	P		P

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party
 Maximum volume of Purchaser's responsibility for T-801 slide and slump repair is 0 CY for all roads to be maintained.

DUST ABATEMENT PLAN C5.31# (T-806)

MATERIAL

TYPE: WATER

Frequency of application: One complete abatement each day for haul up to 315 tons per day. Above 350 tons per day, water will be applied throughout the day as needed to abate dust.

Preparation Method: Compaction Not Required.

MATERIAL

TYPE: LIGNIN SULFONATE

Frequency of application: Initial and Subsequent Applications: .25 gal/ sq.yd.

Frequency of subsequent applications: Every 19,000 tons

Preparation Method: Compaction with Log Hauling Equipment over Full Width Roadway. Wt.-Vol. Conversion Factor: 190 gal/ton @60 degrees F.

	Roads to be Abated with WATER	Roads to be abated with LIGNIN SULFONATE	Lignin Sulfonate Applications	
			Initial	Subsequent
16N10.1				
16N10.2				
16N10.3				
16N10.4				
16N10.5				
16N02.1				
16N02.2				
16N02A				
16N12				
16N11.1				
16N11.2				
16N11.3				
16N11E				

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

Load Limitations	<p>Purchaser shall notify Forest Service in writing of the planned size and load distribution for equipment which exceeds the State of California Vehicle Code legal size and weight, and the National Forest System roads to be used. Such notice may be part of plan of operation under B(T)6.311. Within 15 days after receipt of the written notice Forest Service shall notify Purchaser in writing of any regulations or restrictions that may be needed to protect National Forest Transportation Facilities.</p> <p>A written permit shall be required for moving any vehicle which is in excess of the established legal size and weight which is not listed in the above plan, except as may be authorized in prior written agreements.</p>
Existing Non-National Forest System Roads	<p>Roads not shown on Sale Area Map may be used as Temporary Roads if there is agreement before use is started.</p>
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 4-6inch 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

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
15N32	Hwy 96	16N12	1.60	\$0.08
16N11.2	16N11.1	16N11.3	1.70	0.04
16N10.1	15N32	16N10.2	1.00	0.04
16N10.2	16N10.1	16N10.3	1.50	0.07
16N10.3	16N10.2	Unit 9	3.70	0.04
16N10.4	17N16	16N10.5	2.30	0.06
16N10.5	16N10.4	Unit 14	.50	0.01
17N16	Hwy. 96	16N10.4	3.5	0.13
48	7C01	FS Boundary	10	1.15

Sale Area Average Rate: \$1.62 Ton

Winter Rate

Outside Normal Operating Season (October 16 through April 14), a surface replacement deposit rate Of \$4.86/ton will be charged to all volume hauled.

C6.315# - SALE OPERATIONS SCHEDULE. Table A

<u>Subdivision/ Area/Unit</u>	<u>Conditions of Operation</u>	<u>Purpose</u>
All Units	No operations from February 1 through July 9.	Protect northern spotted owl
Sale Area	No activity allowed when Karuk Tribal Ceremonies are underway. Known dates for 2010 are: July 11 (Wingate Bar), August 4 (Ferry Point) August 5-14 (Wingate and Ferry Point), July 12-15 (Oak Flat area).	Karuk Tribal Ceremonies

C6.41# - FELLING, BUCKING AND LIMBING Table A

<u>Treatment Method and Applicable Map Symbol</u>	<u>Felling, Bucking and Limbing Specifications</u>
Limbing	Outside of construction clearings, Clearcutting Units and regeneration units, unless otherwise provided by B(T)6.414, 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 3 inches, at which point the top shall be cut from the remainder of the stem.
Directional Felling "DF"	Within areas designated DF on Sale Area Map, Included Timber shall be directionally felled away from streamcourse 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	N/A

C6.42# - GROUND BASED SKIDDING. Table A

Map Symbol	Requirements
TRAC	<p>Skid road pattern shall be agreed in advance of felling and main skid roads shall be flagged on the ground in advance of felling. Purchaser shall stage-log by felling and skidding Included Timber in two or more separate operations when necessary to prevent undue damage to the resources or residual stand. Needed tractor trails shall be constructed in advance of skidding.</p> <p>Products shall be end-lined as needed to protect resources or residual timber from unnecessary damage. The number of chokers shall be limited as necessary to avoid unnecessary damage to resources or residual timber. By agreement, tractors may be used to separate products to prevent stain.</p>
SUSP	Products shall be skidded with leading end clear of ground.
ENDL	Endlining shall not be required for distances in excess of 75 feet uphill, and 75 feet downhill.

C6.6# - EROSION PREVENTION AND CONTROL Table A

Vegetative Soil Stabilization N/A

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

Soil Scarification. N/A inches, unless otherwise agreed.

Backblading N/A

Tillage N/A

C6.7# - SLASH TREATMENT .Table A

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	Logging Slash 6 inches or larger in large end d.o.b. and 10 feet or more in length shall be Decked for disposal by Forest Service by piling pieces parallel to each other.
Mach	"Machine Piling"	N/A.
Pile	"Piling" small material	N/A
Remove	"Removing"	N/A
Scat 18" Scat 30"	"Scattering"	N/A
Stack	"Stacking" small material	N/A
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-Removal"	N/A
Cover	"Covering Piles"	N/A
Fell	"Damaged Small Tress"	N/A
Fire-L	"Firelines"	N/A
Fuel-B	"Fuelbreaks"	N/A.

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 areas 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. Material extending three feet or more outside the edge of a pile shall be trimmed. An eight foot fuelbreak shall be cleared of all but fine material around each Machine Pile and an 18 inch wide fireline shall be cleared to mineral soil around the outer ring

of the fuelbreak. For hand piles, Purchaser shall construct a fireline cleared to mineral soil and at least 3 feet wide around each pile. In areas where there is a potential for burning material to roll, firelines, including those for Machine Piles, shall be trenched on the downhill side of each pile to adequately prevent material from crossing firelines. Trenches shall be constructed by hand unless otherwise agreed.

UNIT AND SUBDIVISION.SLASH TREATMENT SPECIFICATIONS.

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

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
Landings	All Landings	Deck, Mach	10 feet

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

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

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

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

TREATMENT ALONG TEMPORARY ROADS. Outside of Clearcutting Units or regeneration units, all trees felled or pushed over and trees damaged beyond

recovery by Temporary Road construction shall be felled, limbed to a stem d.o.b. of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and stem shall be bucked into lengths not exceeding 20 feet. Such slash shall be Scattered free of soil to reduce concentrations unless treatment is required by another specified method.

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.

C6.816# - SCALING DEPOSITS.

Scaling Deposit Schedule

Type of Service:	Rate per Load for Scaling Services under A15		
	Standard	Overtime	Holiday
Yard Scaled Loads	N/A	N/A	N/A
Truck Scaled Loads	N/A	N/A	N/A
Non-Scale Loads	N/A	N/A	N/A
Weighing Services	\$2.70	\$4.05	\$4.05
Load Count	N/A	N/A	N/A

C7.2# - SPECIFIED FIRE PRECAUTIONS.

Specific Equipment Requirements and Fire Precautionary Measures Table A
Version 8/2006

- a. Fire Tools and Equipment
- Purchaser shall meet minimum requirements of Sections 4427 and 4428 of the California Public Resources Code (C.P.R.C.). Fire tools kept at each operating 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.
- 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 filled backpack can (4 or 5 gallon) with hand pump within 10 feet of each tail and corner block.
- Trucks, tractors, 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.
- b. Fire Extinguishers
- Purchaser shall equip each internal combustion yarder, fuel truck, and loader with a fire extinguisher for oil and grease fires (4-A:60-B:C).
- Purchaser shall equip each mechanized harvesting machine with hydraulic systems, powered by an internal combustion engine (chipper, feller/buncher, harvester, forwarder, hot saws, stroke delimeter, etc), except tractors and skidders, with at least two 4-A:60-B:C fire extinguishers or equivalent. In addition, concentrations of wood dust and debris shall be removed from such equipment daily. Additional extinguishers and sizes may be required at landings in accordance with C7.22#.
- c. Spark Arresters
- Purchaser shall equip each operating tractor and any other internal combustion engine with a spark arrester, except for motor vehicles equipped with a maintained muffler as defined in C.P.R.C. Section 4442 or tractors with exhaust-operated turbochargers. Spark Arresters shall be a model tested and approved under Forest Service Standard 5100-1a as shown in the National Wildlife Coordinating Group Spark Arrester Guide, Volumes 1 and 2, and shall be maintained in good operating condition.
- d. Power Saws
- Each power saw shall be equipped with a spark arrester approved according to C.P.R.C. Section 4442 or 4443 and shall be maintained in effective working order. One fire extinguisher meeting specifications of C.P.R.C. Section 4431 shall be kept with each operating power saw. A size 0 or larger shovel with an overall length of not less than 38

inches shall be kept with each gas can but not more than 300 feet from each power saw when used off cleared landing areas.

e. Fire Supervisor and Fire Patrolperson

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

Purchaser shall furnish a qualified fire patrolperson each operating day when Project Activity Level B or higher is in effect. When on duty, sole responsibility of patrolperson shall be to patrol the operation for prevention and detection of fires, take suppression action where necessary and notify the Forest Service as required by C7.22#.

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

f. Seasonal Permits

Purchaser shall obtain written permits from Forest Service before allowing attended warming fires, burning, or blasting, subject to C7.22# - Emergency Precautions. In addition, Purchaser shall obtain necessary Explosives Permits as required by California Health and Safety Code, Section 12101.

g. Blasting

Purchaser shall use electric caps only unless otherwise agreed in writing. When blasting is necessary in slash areas, a watchperson equipped with a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump shall remain in the immediate area for an hour after blasting has been completed.

h. Time of Snag Felling

Unless the felling of dead trees would interfere with the felling, skidding or yarding of green timber or be a safety hazard, or be prevented under C7.22# - Emergency Precautions, required felling of dead trees shall be concurrent with the felling of live timber. There shall be reasonably timely felling of dead trees to facilitate utilization and protection from fire.

i. Clearing of Fuels

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

Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:	10 feet slope radius
Tail or corner haulback blocks:	5 feet slope radius
Lines near, between or above blocks:	Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material

- j. Oil Filters and Glass Jugs. Purchaser shall remove from National Forest lands oily rags and used oil filters and shall prohibit use of glass bottles and jugs in Purchaser's Operations.
- k. Smoking. Any smoking shall be done while sitting in an area at least 3 feet in diameter, cleared of flammable materials. Burning tobacco and matches shall be extinguished before they are properly disposed of.
- l. Reporting Fires. As soon as feasible but no later than 15 minutes after initial discovery Purchaser shall notify Forest Service of any fires on Sale Area or along roads used by Purchaser.
- m. Tank Truck
- Purchaser shall meet minimum requirements of Section 4430 of the California Public Resources Code (C.P.R.C.). Purchaser shall provide a water tank truck or trailer on or in proximity to Sale Area during Purchaser's Operations hereunder during Fire Precautionary Period unless otherwise agreed. When Project Activity Level B or higher is in effect, a tank truck or trailer shall be on or immediately adjacent to each active landing unless otherwise excepted when hot saw technology is being used. See C7.22# for specific contract requirements.
- The tank shall contain at least 300 gallons of water available for fire suppression. A water sprinkling tank truck will meet this requirement if provision is made to insure that the minimum of 300 gallons is available for fire suppression at all times. Ample power and hitch shall be readily available for promptly and safely moving tank over roads serving Sale Area. Tank truck or trailer shall be equipped with following:
- (1) Pump, which at sea level, can deliver 23 gallons per minute at 175 pounds per square inch measured at the pump outlet. Pumps shall be tested on Sale Area using a 5/16 inch orifice in the Forester One Inch In-Line Gauge test kit. Pump shall meet or exceed the pressure value in the following table for nearest temperature and elevation:

T e m p	Sea Lev el	1000 Feet		200 0 Fee t		3000 Feet		4000 Feet		5000 Feet		6000 Feet		7000 Feet		8000 Feet		9000 Feet		1000 0 Feet		
55	17	23	17	23	16	23	16	22	16	22	15	22	15	22	15	21	14	21	14	21	13	21
70	17	23	17	23	16	22	16	22	15	22	15	22	15	21	14	21	14	21	13	21	13	20
85	17	23	16	23	16	22	15	22	15	22	15	21	14	21	14	21	14	21	13	20	13	20
100	16	23	16	23	15	22	15	22	15	22	14	21	14	21	14	21	13	20	13	20	13	20
	P	G	P	G	P	G	P	G	P	G	P	G	P	G	P	G	P	G	P	G	P	G
	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P
	I	M	I	M	I	M	I	M	I	M	I	M	I	M	I	M	I	M	I	M	I	M

The pump outlet shall be equipped with 1-1/2 inch National Standard Fire Hose thread. A bypass or pressure relief valve shall be provided for other than centrifugal pumps.

- (2) 300 feet of 3/4-inch inside diameter rubber-covered high-pressure hose mounted on live reel attached to pump with no segments longer than approximately 50 feet, when measured to the extreme ends of the couplings. Hose shall have reusable compression wedge type 1-inch brass or lightweight couplings (aluminum or plastic). One end of hose shall be equipped with a coupling female section and the other end with a coupling male section. The hose shall, with the nozzle closed, be capable of withstanding 200 PSI pump pressure without leaking, distortions, slipping of couplings, or other failures.
- (3) A shut-off combination nozzle that meets the following minimum performance standards when measured at 100 P.S.I. at the nozzle:

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

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

When Purchaser is using Hot Saw Technology, an additional 500 feet of not less than one (1) inch outside diameter serviceable hard rubber poly or rubber lined or fiber jacket rubber lined (FJRL) hose shall be immediately available for use and be capable of connecting to the 300 feet of hose and appurturances in (2) and (3) above. Synthetic hose may be used by agreement.

n.
Communications.

Purchaser shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Purchaser's headquarters. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service may accept a reasonable alternative location. The communication system shall provide prompt and reliable communications between Purchaser's headquarters (or agreed to 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 A12 and during the time fire patrolperson service is required. A radio-equipped fire patrolperson vehicle will satisfy this requirement if in operation during the time required except during PAL levels "D" and "Ev". See C7.22# for other communication requirements when operating on "D" and "Ev" days with hot saw technology. A CB is not acceptable communication because FCC Regulations prohibit commercial use.

o. Skyline Tank
Unit

When all or part of Included Timber will be yarded by a long span (over 1,500 feet) skyline, Purchaser shall provide at each active skyline landing a suitable tank trailer or tank unit which can be lifted and transported by the skyline carriage. The unit shall meet the same requirements as specified for the water tank trailer.

p. Helicopter
Yarding Fire
Precautions

Purchaser shall provide and maintain fire and helicopter fueling equipment as follows:

(1). The fire tool box required under this provision shall be equipped for attachment to helicopter long line so that it may be hauled to needed locations. Such attachment device shall not interfere with access to fire tools. The fire tool box shall be located at the helicopter service landing ready for immediate dispatch unless otherwise agreed.

(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). Stationary fuel tanks, if used, shall be securely bedded on skids or frame to prevent rolling or tipping and shall be adequately diked with dirt or other agreed to containment methods to prevent fuel spillage or leakage from spreading beyond the diked area.

(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:

(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.

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. PROJECT ACTIVITY LEVEL - C7.22# - EMERGENCY PRECAUTIONS

PROJECT ACTIVITY LEVEL - C7.22# - EMERGENCY PRECAUTIONS

Table A version 8/2006

PROJECT ACTIVITY LEVEL

Level	Project Activity Requirements
A	Minimum required by C7.2# 1. PAL levels are cumulative, Ev level would include all preceding PAL requirements.
B	1. A fire patrol person is required for mechanical operations from cessation of operations until 2 hours after operations cease or sunset, which ever occurs first. 2. Tank truck or trailer shall be on or adjacent to each active landing. 3. When hot saw technology is being used, the tank truck or trailer (B2 above) may serve dual purpose as active landing tank truck provided it shall be kept readily available for use as follows: a. Within one quarter mile of the operating hot saw technology; and b. Within 10 minutes of the active landing; and c. Effective communications exist between hot saw technology and active landing. Otherwise, there shall be a tank truck or trailer at both the active landing and within one quarter mile of the operating hot saw technology. 4. (Additional restrictions specified by the forest.)
C	1. The following operations are prohibited from 1:00 PM until 8:00 PM local time: a. Blasting 2. Operations using hot saw technology are prohibited between 1:00 PM and sunset local time. Hot saw technology operations may continue if Purchaser provides a portable fire suppression system capable of extinguishing a 20-foot by 20-foot wild land fire within five (5) minutes of discovery. The following equipment will meet the requirements above: a. Compressed Air Foam System with minimum requirements of 20 gallons stored energy, 100 feet of 1 inch hose and adjustable 1 inch nozzle, minimum discharge range of 60 feet and 1 spare air cylinder; or b. All terrain tank truck or equivalent capable of traveling throughout the cutting unit, containing not less than 300 gallons of water and complies with all tank truck requirements of C(T)7.2#. All terrain tank truck or equivalent may serve dual purpose as active landing tank truck provided: 1) Tank truck or equivalent shall be kept readily available to extinguish a fire within 5 minutes of discovery of the operating hot

	<p>saw technology, 2) Tank truck or equivalent shall be no further than 10 minutes travel time to the active landing, 3) A 4-A:80-B:C extinguisher is maintained at the landing fire tool box and, 4) Effective communications exist between the hot saw technology, active landing and all terrain tank truck or equivalent. Otherwise there shall be a tank truck at the active landing and an all terrain tank truck or equivalent with the hot saw technology.</p> <p>3. (Additional restrictions specified by the forest.)</p>
D	<p>1. The following restrictions apply: a. No blasting after 10:00 AM b. Welding or cutting of metal only by special permit c. No Burning without a permit</p> <p>2. The following activities may not operate after 1:00 PM local time unless fire patrolperson(s) walks all areas operated that day once per hour until sunset local time and has the capability of notifying the designated Forest Service Dispatch Center within fifteen (15) minutes of discovery of a fire: a. Track-laying equipment b. Chipping outside of landings and roadbeds c. Equipment using Hot Saw Technology d. Chainsaw operations outside of landings and roadbeds e. Tree felling operations f. Ripping roads and landings g. Mastication h. Cable-yarding employing motorized carriages.</p> <p>3. (Additional restrictions specified by the forest.)</p>
Ev	<p>1. The following operations are prohibited: a. Blasting b. Welding or cutting metal c. Burning</p> <p>2. Following activities may operate when fire patrolperson walks from 9:00 AM until local sunset all areas once per hour that were mechanically operated that day.</p> <p>A. Activities that may operate all day:</p> <p>1. Hauling and loading of logs decked at approved landings. 2. Hauling and loading of chips piled at approved landings. 3. Equipment servicing at approved sites. 4. Roads: Dust abatement or rock aggregate installation (do not include pit or quarry development) 5. Chainsaw or stroke delimeter operation associated with loading at approved landing sites.</p>

	<p>B. All other Operations are permitted until 1:00 PM local time subject to the following:</p> <p>1. When hot saw technology is being used a tractor or other equipment with blade capable of constructing fire line, shall be on standby and immediately available. Tractor will have effective communications with hot saw technology and be within one quarter mile of hot saw technology to quickly reach and effectively attack a fire start.</p> <p>C. (Additional restrictions specified by the forest.)</p>
E	<p>The following activities may operate subject to B1. and B2.</p> <ol style="list-style-type: none"> 1. Hauling and loading of logs decked at approved landings. 2. Hauling and loading of chips piled at approved landings. 3. Equipment at approved sites may be serviced. 4. Roads: Dust abatement or rock aggregate installation (does not include pit development). 5. Chainsaw operation associated with loading at approved landings.

