

SPECIFICATIONS PURSUANT TO KT-CT.3.5# - DESIGNATION OF TIMBER AND SUBDIVISION/PAYMENT UNIT BOUNDARIES

Timber Designation Table

Unit/ Subdivision/Area/Pay ment Unit	Tree Paint Color	Designation or Specification
Contract Area	Blue	<u>Roadside Hazard Tree</u> . Notwithstanding CT.3.2 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 Contractor's landings or the roadbed of National Forest System roads within Contract Area, shall be felled by Contractor 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 Contractor 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 Contract Area Map or on the ground.
Units 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 201, 202, 601, 602	Blue	<u>Individual Tree Mark</u> . Individual trees are designated for cutting only if Marked above and below stump height with the specified paint color.
N/A	N/A	<u>Leave Tree Mark</u> . All live N/A are designated for cutting unless Marked as leave trees. Leave trees are Marked above and below stump height with the specified paint color. Contract Area Map indicates areas plainly identified on the ground where leave trees are Marked to be left uncut.
N/A	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 AT.2, may be designated for cutting in Salvage Areas shown on the Contract Area Map when Marked with the specified paint color in advance of felling other timber in the vicinity.
Contract Area	White	<u>Wildlife Trees</u> . Notwithstanding the designation for cutting under CT.3.1, CT.3.3, CT.3.4, or CT.3.5, 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 Contractor's Operations, Forest Service may designate alternate trees to be saved.
N/A		<u>Designation by Spacing</u> KT-CT.3.5.1#
N/A		<u>Designation by Species and Diameter</u> , KT-CT.3.5.2#
N/A		<u>Designation by Damage Class</u> , KT-CT.3.5.3#
N/A		<u>Designation by Row Spacing</u> , KT-CT.3.5.4#

Subdivision/Payment Unit Boundary Designation Table

<u>Subdivision/Payment Unit</u>	<u>Boundary Paint Color</u>	<u>Boundary Designation</u>
Units 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 201, 202, 601, 602	Orange	-Boundary line trees are Marked at eye level with three (3) horizontal slash marks and a spot at ground level with the eye level marks facing into the interior of the subdivisions. -Yellow boundary posters with project name and Subdivisions are stapled to boundary trees and face outward at locations where the Subdivision boundary intersects or coincides with roads.

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
CR 42	County Road 42	CR 306	M5	X	Hauling Prohibited

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		801	803								
M5	CR43A	16N25	17.0	C	C								
17N02	M5	16N18	1.3	C	C								
16N52	M5	Unit 8	0.2	C	C								
16N40	M5	Unit 8	0.40	C	C								
16N51	M5	16N51A	0.6	C	C								
16N51A	16N51	Unit 9	0.2	C	C								
16N25	M5	16N62	2.5	C	C								
16N17	M5	Unit 7	0.15	C	C								
16N18	17N02	Unit 14	1.4	C	C								
16N12	M5	Unit 2	0.25	C	C								

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		803	806								
M5	CR43A	16N25	17.0	C	C								
17N02	M5	16N18	1.3	C	C								
16N52	M5	Unit 8	0.2	C	C								
16N40	M5	Unit 8	0.40	C	C								
16N51	M5	16N51A	0.6	C	C								
16N51A	16N51	Unit 9	0.2	C	C								
16N25	M5	16N62	2.5	C	C								
16N17	M5	Unit 7	0.15	C	C								
16N18	17N02	Unit 14	1.4	C	C								
16N12	M5	Unit 2	0.25	C	C								

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		802	803	805	809						
M5	CR43A	16N25	17.0	C	C	C							
17N02	M5	16N18	1.3	C	C	C							
16N52	M5	Unit 8	0.2	C	C	C							
16N40	M5	Unit 8	0.40	C	C	C							
16N51	M5	16N51A	0.6	C	C	C							
16N51A	16N51	Unit 9	0.2	C	C	C							
16N25	M5	16N62	2.5	C	C	C							
16N17	M5	Unit 7	0.15	C	C	C							
16N18	17N02	Unit 14	1.4	C	C	C							
16N12	M5	Unit 2	0.25	C	C	C							

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

SPECIFICATIONS PURSUANT TO KT-FT.3.5# - REQUIREMENTS OF ROAD AND WATER SUPPLY USE

<p>Load Limitations</p>	<p>Contractor 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 GT.3.1.1. Within 15 days after receipt of the written notice Forest Service shall notify Contractor in writing of any regulations or restrictions that may be needed to protect National Forest Transportation Facilities. A written permit shall be required for moving any vehicle which is in excess of the established legal size and weight which is not listed in the above plan, except as may be authorized in prior written agreements.</p>
<p>Existing Non-National Forest System Roads</p>	<p>Roads not shown on Contract Area Map may be used as Temporary Roads if there is agreement before use is started.</p>
<p>Snow Removal</p>	<p>If Contractor removes snow from roads, such work shall be done with Forest Service approval and in a manner that will protect roads and adjacent resources. 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. Snow must not be removed to the road surface. A minimum 6 inch snow depth must be left to protect the roadway. If the road surface is damaged, Contractor 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. 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	N/A

SCHEDULE PURSUANT TO KT-GT.3.1.5# - PROJECT OPERATIONS SCHEDULE (12/2006)

<u>Subdivision/ Area/Unit</u>	<u>Conditions of Operation</u>	<u>Purpose</u>
Units: 3, 201, 202	No noise generating activities from February 1 – September 15	Minimize disturbance to the Northern Spotted Owl (NSO) during breeding/nesting season. If protocol surveys are conducted and no owls are detected the restrictions would be changed to February 1 – July 10.
Unit: 13	No noise generating activities from February 1 – July 10	Minimize disturbance to the NSO during breeding/nesting season.
Units: 8, 9, 201, 601, 602	Operations are limited between 12:00 PM Friday to 5:00 AM Monday within 200 feet of the trail.	OHV trail safety
Units: 201, 202	No activities from July 10 through the Tuesday after Labor Day	Safety of occupants of Cedar Campground

SPECIFICATIONS AND TREATMENTS PURSUANT TO KT-GT.4.1# - FELLING, BUCKING AND LIMBING

Treatment Method	Felling, Bucking and Limbing Specifications		
Limbing	Outside of construction clearings, Clearcutting Units and regeneration units, unless otherwise provided by GT.4.1.3, 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 N/A inches, at which point the top shall be cut from the remainder of the stem.		
No Lop "No Lop"	Within units or payment units designated NO LOP on Contract 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 payment units designated "Whole" on Contract Area Map, trees smaller than 22 inches DBH shall be skidded/yarded to agreed landing locations prior to limbing, bucking, and lopping. Trees larger than or equal to 22 inches DBH shall be bucked into two or more pieces with the butt portion being no longer than 44 feet prior to skidding/yarding. The butt log shall not be limbed prior to skidding/yarding.		
Directional Felling	Within areas designated DF on Contract Area Map, Included Timber shall be directionally felled away from streamcourses, improvements OHV trails and archeological sites 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	N/A		
Maximum Log Length	N/A		
Minimum Stump Height	Unit/Subdivision	Minimum Stump Height (inches)	Purpose or Reason
	1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 201, 202, 601, 602	4	Facillitate timber accountability and to reduce potential fire risk from use of feller bunchers.

Ground-Based Skidding Table - KT-GT.4.2#

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. Contractor shall stage-log by felling and skidding Included Timber in two or more separate operations when necessary to prevent undue damage to the resources or residual stand. Needed tractor trails shall be constructed in advance of skidding.</p> <p>Products shall be end-lined as needed to protect resources or residual timber from unnecessary damage. The number of chokers shall be limited as necessary to avoid unnecessary damage to resources or residual timber. By agreement, tractors may be used to separate products to prevent stain.</p>
SUSP	<p>Products shall be skidded with leading end clear of ground.</p>
SPACE	<p>Skid roads will average 100 feet from center to center, except where converging.</p>
ENDL	<p>Endlining shall not be required for distances in excess of 50 feet uphill, and 100 feet downhill.</p>
MAX	<p>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 Contract Area Map and shall not exceed the overall width designated on Contract Area Map.</p>
MH	<p>Contractor shall cut Included Timber and move it to designated skid trails using equipment with a boom having an operating radius of at least 15 feet for bunching trees, capable of severing, lowering and placing trees up to 24 inches diameter at stump height on the ground prior to skidding. Such equipment must be capable of operating on slopes up to 35 %.</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 GT.4.1 - Felling and Bucking, KT-GT.4.1# - Felling, Bucking, and Limbing Requirements and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</p>

<p>CTL</p>	<p>Included Timber shall be felled, limbed and bucked by a self-propelled mechanical harvester capable of producing finished sawlogs or chippable boles. Limbs of Included Timber shall be placed evenly in the machinery skid trail prior to product removal. The harvester shall be an all-wheel drive machine with at least 3 axles and a processing head mounted on a boom having a minimum-operating radius of 20 feet.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources or residual timber from unnecessary damage.</p> <p>All Products shall be removed by an all-wheel drive forwarder with at least 3 axles capable of self-loading and unloading. The forwarder shall carry all products free of the ground during removal. The loading crane shall have a minimum-operating radius of 15 feet. Log landings and transfer points shall be agreed in advance of harvesting.</p> <p>Included Timber exceeding the harvester's capability may be felled by conventional chainsaw methods, forwarded to nearest skid trail and processed into a finished Product with harvester or chainsaw, consistent with the requirements GT.6.1 - Meadow Protection, GT.4.1 - Felling and Bucking, KT-GT.4.1# - Felling, Bucking, and Limbing and the above "TRAC", "SUSP", "SPACE", "ENDL", and "MAX" requirements.</p>
<p>PB</p>	<p>Contractor shall cut Included Timber and move trees to pre-approved skyline corridors to facilitate skyline yarding using equipment with a boom having an operating radius of at least N/A feet for bunching trees, capable of severing, lowering and placing trees up to N/A inches diameter at stump height on the ground prior to yarding. Such equipment must be capable of operating on slopes up to N/A %. Bundles shall not exceed yarder capability or cause unnecessary damage to residual stand.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources from unnecessary damage. Such trees shall be felled away from the corridor in a manner that minimizes residual stand damage during yarding.</p> <p>Included Timber exceeding the feller's capability may be felled by conventional chainsaw methods</p>
<p>HCTL</p>	<p>Included Timber shall be felled, limbed and bucked by a self-propelled mechanical harvester capable of producing finished sawlogs or chippable boles. Such equipment must be capable of operating on slopes up to N/A %. The harvester shall be an all-wheel drive machine with at least 3 axles, or track mounted, and a processing head mounted on a boom having a minimum-operating radius of 20 feet.</p> <p>Notwithstanding above, hand felling using chainsaws may be required in or adjacent to sensitive areas to protect resources or residual timber from unnecessary damage.</p> <p>Included Timber exceeding the harvester's capability may be felled by conventional chainsaw methods</p>

SPECIFICATIONS PURSUANT TO KT-GT.6# - EROSION PREVENTION AND CONTROL

Vegetative Soil Stabilization Where soil has been disturbed by Contractor's Operations and the establishment of vegetation is needed to minimize erosion, Contractor shall take appropriate measures normally used to establish an adequate cover of grass or other vegetation acceptable to Forest Service or take other agreed stabilization measures. Forest Service shall designate on the ground such disturbed areas annually as logging and Temporary Road construction are completed.

Forest Service upon request shall provide advice as to soil preparation and the application of suitable seed mixtures, mulch and fertilizer and the timing of such work. In no event shall Contractor be required to treat more acres than that shown in the legend of Contract Area Map.

Contractor shall use the type of native seed mixtures, mulch, and fertilizer as listed below:

Seed Mix	Pounds/Acre	Type of Mulch	Fertilizer
N/A	N/A	Weed free mulch/straw	N/A

Special Erosion Prevention Measures Contractor 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 Contract Area Map. The specific locations to be treated shall be designated on the ground by Forest Service. These special erosion prevention measures are to be done within the same date and time periods as stated above.

Soil Scarification: N/A

Backblading: N/A

Tillage: N/A

SPECIFICATIONS PURSUANT TO KT-GT.7# - SLASH TREATMENT (12/2006)

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

Slash Treatment Methods

<u>Symbol</u>	<u>Method</u>	<u>Definition</u>
Buck-L	"Bucking Large Logging Slash"	Tops and limbs over 4 inches diameter outside bark (d.o.b.), not to be otherwise treated, shall be bucked into lengths not to exceed 6 feet, unless agreed otherwise.
Buck-P	"Bucking and Piling"	Logging Slash smaller than N/A inches and larger than 4 inches in large end d.o.b. shall be bucked into lengths not to exceed N/A feet and left in place. Logging Slash 4 inches and smaller in large end d.o.b. shall be hand Piled within Required Disposal Strip for Forest Service disposal.
Bury	"Burying"	Logging Slash shall be buried where agreed in borrow areas, pits, trenches, or other locations reasonably near the area of origin. Logging Slash shall be matted down in layers and shall be covered with at least 2 feet of rock and soil so that the final surface is sloped to drain and relatively smooth.
Chip	"Chipping"	Chippable Logging Slash up to 4 inches in d.o.b. shall be processed through a chipping machine. Chips shall be scattered to a loose depth not exceeding 6 inches.
Deck	"Decking" large material	Logging Slash 4 inches or larger in large end d.o.b. and 10 feet or more in length shall be Decked for disposal by Forest Service by piling pieces parallel to each other.
Mach	"Machine Piling"	Concentrations of Logging Slash, excluding scattered individual pieces, shall be Machine Piled by tractor equipped with brush rake for disposal by Forest Service.
Pile	"Piling" small material	Logging Slash smaller than 10 inches in large end d.o.b. and 10 feet long shall be hand Piled for disposal by Forest Service.
Fell	"Damaged Small Tress"	Unless treated under other provisions, all trees smaller than the minimum d.b.h. in AT.2, over 5 feet in height, and damaged beyond recovery by Contractor's Operations shall be felled. Such trees shall be limbed to a stem diameter outside bark of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and shall be bucked into lengths not exceeding 20 feet.

<p>Fire-L</p>	<p>"Firelines"</p>	<p>Shown on Contract Area Map and to be flagged on ground after logging by Forest Service are firelines to be constructed by Contractor unless otherwise agreed in writing. Contractor shall construct not more than N/A chains of fireline by hand and not more than N/A chains of fireline by tractor.</p> <p>Firelines constructed by hand shall be cleared of all vegetative debris larger than one inch in d.o.b. and three feet long. The width of firelines shall be at least N/A feet, except across the top of cutting units where the width shall be at least N/A feet. At least N/A feet shall be scraped to mineral soil. In areas where there is potential for burning material to roll, the fireline shall be constructed in a trenched manner on the downhill side.</p> <p>Tractor lines shall be cleared of all vegetative debris, larger than one inch in diameter and three feet long, to a width of at least N/A feet, with at least N/A feet to mineral soil. No slash, brush, or other vegetative debris shall be buried in or under berms created in the construction of firelines. All limbs overhanging into the fireline, shall be removed to a minimum height of 8 feet.</p> <p>Firelines shall be completed on each unit in accordance with GT.3.1.1 unless otherwise agreed in writing.</p> <p>In subdivisions N/A and shown on Contractor Area Map, Logging Slash shall be scattered within N/A feet slope distance of the inside edge of firelines.</p>
<p>Remove</p>	<p>"Removing"</p>	<p>Logging Slash shall be moved or hauled to locations shown on Contract Area Map and designated on the ground where it shall be piled for disposal by Forest Service.</p>
<p>Scat 18" Scat 30"</p>	<p>"Scattering"</p>	<p>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 Contract 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.</p>

Stack	"Stacking" small material	Logging Slash N/A inches or smaller in large end d.o.b. and N/A feet or more in length shall be stacked for disposal by Forest Service by piling pieces parallel to each other.		
View	"Visible Slash Treatment"	Designated on Contract Area Map with boundaries posted on the ground are <> with distance limitations for visible slash treatment. Within such units and the area of visible Logging Slash adjacent thereto, Logging Slash shall be treated by Contractor. Primary treatment shall be by Removing, Burying, Chipping, Piling, Machine Piling, or a combination of these means unless a method is specified or prohibited on Contract Area Map. Logging Slash not readily treated by the selected or specified method shall be removed to designated areas or treated as agreed.		
YUMD	"Yarding Unutilized Material-Decking"	All unutilized material developed by Contractor's Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized material shall be Yarded to landings and Decked. Where this is impractical, or other reasons, other locations shall be agreed upon.		
		Unit	Large End d.o.b. (in)	Length (feet)
		N/A	N/A	N/A
YUME	"Yarding Unutilized Material-Exterior Boundary"	All unutilized material developed by Contractor's Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized material shall be yarded to locations a minimum of 50 feet slope distance within the exterior boundaries of such units and positioned so the yarded material will not roll.		
		Unit	Large End d.o.b. (in)	Length (feet)
		N/A	N/A	N/A
YUML	"Yarding Unutilized Material-Landing"	All unutilized material developed by Contractor's Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unutilized shall be yarded to locations within 100 feet slope distance of landing. Where this is impractical, or other reasons, other locations shall be agreed upon.		
		Unit	Large End d.o.b. (in)	Length (feet)
		N/A	N/A	N/A

YUMR	"Yarding Unused Material-Removal"	<p>All unused material developed by Contractor's Operations shall be treated by the d.o.b. and length specifications as shown in the unit specification table. All unused shall be removed to locations shown on Contract Area Map and designated on the ground, or other agreed locations, and Decked.</p> <table border="1" data-bbox="656 436 1304 569"> <thead> <tr> <th data-bbox="656 436 878 533">Unit</th> <th data-bbox="883 436 1105 533">Large End d.o.b. (in)</th> <th data-bbox="1110 436 1304 533">Length (feet)</th> </tr> </thead> <tbody> <tr> <td data-bbox="656 539 878 569">N/A</td> <td data-bbox="883 539 1105 569">N/A</td> <td data-bbox="1110 539 1304 569">N/A</td> </tr> </tbody> </table>	Unit	Large End d.o.b. (in)	Length (feet)	N/A	N/A	N/A
Unit	Large End d.o.b. (in)	Length (feet)						
N/A	N/A	N/A						
Cover	"Covering Piles"	<p>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.</p>						
Fell	"Damaged Small Trees"	<p>Unless treated under other provisions, all trees smaller than the minimum d.b.h. in AT.2, over 5 feet in height, and damaged beyond recovery by Contractor's Operations shall be felled. Such trees shall be limbed to a stem diameter outside bark of approximately 3 inches, at which point the top shall be cut from the remainder of the stem, and shall be bucked into lengths not exceeding 20 feet.</p>						

<p>Fire-L</p>	<p>“Firelines”</p>	<p>Shown on Contract Area Map and to be flagged on ground after logging by Forest Service are firelines to be constructed by Contractor unless otherwise agreed in writing. Contractor shall construct not more than N/A chains of fireline by hand and not more than N/A chains of fireline by tractor.</p> <p>Firelines constructed by hand shall be cleared of all vegetative debris larger than one inch in d.o.b. and three feet long. The width of firelines shall be at least N/A feet, except across the top of cutting units where the width shall be at least N/A feet. At least N/A feet shall be scraped to mineral soil. In areas where there is potential for burning material to roll, the fireline shall be constructed in a trenched manner on the downhill side.</p> <p>Tractor lines shall be cleared of all vegetative debris, larger than one inch in diameter and three feet long, to a width of at least N/A feet, with at least N/A feet to mineral soil. No slash, brush, or other vegetative debris shall be buried in or under berms created in the construction of firelines. All limbs overhanging into the fireline, shall be removed to a minimum height of 8 feet.</p> <p>Firelines shall be completed on each unit in accordance with GT.3.1.1 unless otherwise agreed in writing.</p> <p>In subdivisions N/A and shown on Contractor Area Map, Logging Slash shall be scattered within N/A feet slope distance of the inside edge of firelines.</p>
<p>Fuel-B</p>	<p>“Fuelbreaks”</p>	<p>Shown on Contract Area Map, with boundaries designated on the ground, are “Fuelbreaks” of varying width. Within such Fuelbreaks all Logging slash and Construction slash shall be treated by Contractor. Primary treatment shall be by Removing, Burying, Chipping, Piling, Machine Piling, or a combination of these methods unless a method is specified or prohibited on Contract Area Map. Slash larger than treatment size requirements of selected or specified methods shall be scattered outside Fuelbreak, or treated as agreed.</p>

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

UNIT AND SUBDIVISION.SLASH TREATMENT SPECIFICATIONS.

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

LANDINGS AND DISPOSAL SITES. Unutilized logs accumulated at landings and disposal sites shall be Decked by Contractor 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			
	<i>Subdivision or Unit No.</i>	<i>Specified Method</i>	<i>Maximum Height of Decks</i>
<u>Landings</u>	1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 201, 202, 601, 602 All Units	DECK (tops and non-saw material) MACHINE	10 feet
<u>Disposal Sites</u>	N/A	N/A	N/A

TREATMENT ALONG PERMANENT ROADS. Permanent roads that require roadside slash treatment are listed in the attached table and shown on Contract Area Map. All Logging and Construction Slash within Required Disposal Strips shall be treated by Contractor. "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	N/A	N/A	N/A	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 **N/A** feet. Such slash shall be Scattered free of soil to reduce concentrations unless treatment is required by another specified method.

Pacific Stewardship Project
 Tree Volume (based on original cruise tree data)
 (Volume in 1000 Board Feet - MBF)

Species	DF	IC	PP	SP	WF
Product	01	01	01	01	01
DBH					
10	0.05	0.03	0.04	0.03	0.04
11	0.06	0.03	0.05	0.04	0.06
12	0.07	0.03	0.06	0.05	0.08
13	0.09	0.04	0.09	0.06	0.10
14	0.11	0.05	0.11	0.08	0.12
15	0.14	0.06	0.14	0.10	0.15
16	0.17	0.08	0.18	0.13	0.18
17	0.21	0.10	0.22	0.16	0.22
18	0.25	0.13	0.27	0.19	0.26
19	0.30	0.16	0.32	0.23	0.31
20	0.35	0.19	0.38	0.27	0.37
21	0.41	0.22	0.44	0.31	0.43
22	0.47	0.26	0.50	0.37	0.49
23	0.54	0.30	0.58	0.42	0.56
24	0.62	0.34	0.65	0.49	0.64

KT-GT.9# – STEWARDSHIP PROJECTS. (9/04) Performance of stewardship projects shall be in accordance with the following specifications.

- I. SPECIFICATIONS: The Pacific Stewardship Sale includes cutting and removing small conifers (4.0 – 9.9 inches DBH) to the landing. This work will be done within the specified units shown in the table below. The table identifies the specific acceptable treatment applicable to each unit. The description of each specification follows the table.

PACIFIC STEWARDSHIP SALE SPECIFICATION TABLE

Work Activity Description	Mandatory Units	Acres	Machine or Hand Cut and Removal of Small Conifers to Landing**	Hand Cutting and Piling of Small Conifers	Mastication of Small Conifers	Hand Cutting and Piling of Brush and Slash
Small conifer thinning (4.0"-9.9" DBH)	7,202	42	YES	NO	NO	NO

Mandatory Stewardship Projects; All conifers between 4.0 and 9.9 inches DBH shall be cut. Contractor's technical proposal shall specify a combination of machine cutting and removal of material to landings.

Priority Level	Work Activity Description	Optional Unit	Acres	Machine Cut and Removal of Small Conifers to Landing	Hand Cutting and Piling of Small Conifers	Mastication of Small Conifers and Brush	Hand Cutting and Piling of Brush and Slash
1	Small conifer thinning (4.0"-9.9" DBH)	1,3,5,8,9,10,11 12,602	95	YES	NO	YES	NO
2	Remove brush and conifers (from 1' high to 9.9" DBH)	4,201,601,22	67	NO	YES	YES	YES
3	Hand thin and pile: (all brush and trees from 1' high to 9.9" DBH)	23	27	NO	NO	NO	YES

Optional Stewardship Projects; Contractor's technical proposal shall address hand cutting and piling of applicable units. In units proposed to have brush cut and piled, the following specifications must be met:

1. All brush of the following species (over 1 foot high) shall be cut: Manzanita, White thorn, Chamise, Poison Oak, Ceanothus.
2. All cut material over 1" in diameter (large end) and over 2' long must be piled.
3. All piles shall be constructed by laying limbs, stems, cut boles and other slash in the pile so as to be parallel with each other. Each pile shall include an area of small sized slash near the bottom of the pile to provide kindling for prompt ignition and to aid in combustion of larger slash.
4. Maximum pile size shall be 6 feet in diameter by 4 feet in height. All material shall be cut to a length such that it can be placed in a pile without exceeding these maximum dimensions.
5. Piles shall be constructed at least 15' apart.
6. Piles shall be placed so that flames from the pile will not impact leave trees. In all cases, piles shall not be closer than 10 feet from leave trees.

7. If vegetation is cut within a controlled area, it must be removed from the site without disturbing the ground (i.e. Do not drag trees out of a site) and piled outside of the controlled area. Controlled areas will be clearly flagged prior to the start of work.
8. Piles shall not be closer than 25 feet from unit boundaries, controlled areas, edges of roads or trails, meadows or private ground.
9. Piles must be at least 50 feet from riparian areas or at the slope-break, whichever is further.
10. Slash must not be piled or placed on logs, stumps, or ditches.

A. PROJECT 1: MANDATORY ITEM

a. CUTTING AND REMOVING SMALL CONIFERS (4.0" TO 9.9" DBH) TO LANDING

Unless otherwise agreed in cutting unit 7, the Contractor shall cut all conifers between 4.0 and 9.9 inches DBH and move them to the landing.

The Contractor's proposal may include either hand-cutting or machine cutting of small conifers in units 7 and 202 .

B. PROJECTS 2, 3 AND 4: OPTIONAL ITEMS

a. CUTTING AND REMOVING OR MASTICATING SMALL CONIFERS (4.0" TO 9.9" DBH) TO LANDING

Unless otherwise agreed, in cutting units 1,3,5,8,9,10,11,12, 602, 22 and 23, the Contractor shall perform any combination of removing to the landing, hand piling, or mastication of small conifers (4.0 – 9.9 inches DBH) as described in the specifications section and the Contractor's technical proposal.

Hand Piling is the only fuel treatment permitted in unit 23.

B1. REMOVAL (refer to Specification table above and AT.4.4 project (#1 and #2))

1. Unless otherwise agreed, in cutting units , the Contractor shall remove all "Slash" to landings. Material removed to landings will be available to be sold to the contractor as "Timber Subject to Agreement."
2. Material removal to landings in each unit shall be completed within the proposed timeframes within the Contractor's proposal.

B2. HAND PILING (refer to Specification table above and AT.4.4. project #2, #3, and #4)

1. The Contractor's proposal for the hand piling option should address size, compactness and locations of piles to protect residual trees during the burning operations.
2. Hand Piling shall be accomplished in accordance with KT-GT.9# piling specifications in Specification table above.
3. Hand Piling in each unit shall be completed within the proposed timeframes within the Contractor's proposal.

B3. MASTICATION (refer to Specification table above and AT.4.4 project (#2 and #3))

1. The Contractor's proposal may propose mastication of "Slash" in units 1,3,5,8,9,10,11,12, 602, 22 and 23. If proposed, all conifer trees between 4.0 and 9.9 inches DBH may be machine masticated. Mastication cannot be proposed on slopes greater than 35%.
2. The mastication option should address the type of machinery proposed for such work, the size and distribution of material after mastication as well as the proposed slopes for such treatment.
3. Mastication in each unit shall be completed within the proposed timeframes within the Contractor's proposal.

II. INSPECTION AND ACCEPTANCE

Inspection (General). Government inspections are for the purpose of satisfying the Government that the services are acceptable and do not relieve the Contractor of the responsibility for maintaining quality control. The Contractor shall conduct inspections on all units in accordance with Contractor's Quality Control Program included in the Contractor's technical proposal which is made a part of this contract.

Inspection (Specific):

Cutting Small Conifers:

Measurable Performance Standards

- Condition of trees left
- Height of stumps after cutting
- Condition of soil after skidding, amount of displacement and compaction
- Condition and amount of erosion control measures to meet standards

Removal:

Measurable Performance Standards

- Condition of trees remaining in each unit and on each landing after removal

Hand Piling:

Measurable Performance Standards

- Condition of piles and location

Mastication:

Measurable Performance Standards

- Condition of residual trees in addition to size and distribution of material after mastication

Government Inspections: The Forest Service Representative, Project Administrator or designated inspector will conduct all inspections. The Contractor (or designated representative) is encouraged to be present to observe inspections. Inspections will be a walk-through visual examination of the unit. Refer to GT3.6 Acceptance of Work.

Measurement for Stewardship Credit: Acreage was measured on a horizontal plane using a Global Positioning System. Unless otherwise indicated by this contract, the contractor may request remeasurement of any quantities. The request must be made in writing and must be made within 10 calendar days of completing work on the unit in question. If remeasurement indicates a variance of five percent or less from the stated quantity, the Government may deduct Stewardship Credits to the Contractor equal to the cost of this remeasurement. If remeasurement indicates a variance of more than five percent from the stated quantity, Stewardship Credits will be based on the remeasured quantity, and the Contractor will not be liable for the costs of remeasurement. All remeasurements will be done by the Government. Remeasurement of acreage will be done using a Global Positioning System.

Specific Equipment Requirements and Fire Precautionary Measures Table – KT-HT.2# Table
Version 12/2006

<p>a. <u>Fire Tools and Equipment</u></p>	<p>Contractor 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 Contractor 's Operations. Tractor headlights shall be attachable to each tractor and served by an adequate power source.</p> <p>Where cable yarding is used, Contractor 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.</p> <p>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.</p>
<p>b. <u>Fire Extinguishers</u></p>	<p>Contractor shall equip each internal combustion yarder, fuel truck, and loader with a fire extinguisher for oil and grease fires (4-A:60-B:C).</p> <p>Contractor shall equip each mechanized harvesting machine with hydraulic systems, powered by an internal combustion engine (chipper, feller/buncher, harvester, forwarder, hot saws, stroke delimber, 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 KT-HT.2.2#.</p>
<p>c. <u>Spark Arresters</u></p>	<p>Contractor 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.</p>
<p>d. <u>Power Saws</u></p>	<p>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.</p>

<p>e. <u>Fire Supervisor and Fire Patrolperson</u></p>	<p>Contractor shall designate in the fire plan required by HT.1 and furnish on Contract Area during operating hours a qualified fire supervisor authorized to act on behalf of Contractor in fire prevention and suppression matters.</p> <p>Contractor 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 KT-HT.2.2#.</p> <p>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.</p>						
<p>f. <u>Seasonal Permits</u></p>	<p>Contractor shall obtain written permits from Forest Service before allowing attended warming fires, burning, or blasting, subject to KT-HT.2.2# – Emergency Precautions. In addition, Contractor shall obtain necessary Explosives Permits as required by California Health and Safety Code, Section 12101.</p>						
<p>g. <u>Blasting</u></p>	<p>Contractor 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.</p>						
<p>h. <u>Time of Snag Felling</u></p>	<p>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 KT-HT.2.2# - 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.</p>						
<p>i. <u>Clearing of Fuels</u></p>	<p>Contractor shall clear away, and keep clear, fuels and logging debris as follows:</p> <table border="1" data-bbox="397 1438 1388 1848"> <tr> <td data-bbox="397 1438 787 1648"> <p>Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:</p> </td> <td data-bbox="787 1438 1388 1648"> <p>10 feet slope radius</p> </td> </tr> <tr> <td data-bbox="397 1648 787 1743"> <p>Tail or corner haulback blocks:</p> </td> <td data-bbox="787 1648 1388 1743"> <p>5 feet slope radius</p> </td> </tr> <tr> <td data-bbox="397 1743 787 1848"> <p>Lines near, between or above blocks:</p> </td> <td data-bbox="787 1743 1388 1848"> <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>5 feet slope radius</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>
<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>5 feet slope radius</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>						

j. <u>Oil Filters and Glass Jugs.</u>	Contractor shall remove from National Forest lands oily rags and used oil filters and shall prohibit use of glass bottles and jugs in Contractor's Operations.
k. <u>Smoking.</u>	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. <u>Reporting Fires.</u>	As soon as feasible but no later than 15 minutes after initial discovery - Contractor shall notify Forest Service of any fires on Contract Area or along roads used by Contractor.

m. Tank Truck

Contractor shall meet minimum requirements of Section 4430 of the California Public Resources Code (C.P.R.C.). Contractor shall provide a water tank truck or trailer on or in proximity to Contract Area during Contractor '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 KT-HT.2.2# 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 Contract 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 Contract 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 Le v e l	1000 Feet		2000 Feet		3000 Feet		4000 Feet		5000 Feet		6000 Feet		7000 Feet		8000 Feet		9000 Feet		1000 0 Feet		
		17 9	23 4	17 23	16 9	22 5	16 22	22 1	15 7	22 3	15 21	22 0	15 21	21 6	14 21	21 3	14 21	21 9	13 21	21 13	13 20	
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.

<p>m. <u>Tank Truck</u> (cont.)</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="625 407 1318 504"> <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> <p>(4) Sufficient fuel to run pump at least 2 hours and necessary service accessories to facilitate efficient operation of the pump.</p> <p>When Contractor 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.</p>		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>n. <u>Communications.</u></p>	<p>Contractor shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Contractor'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 Contractor's headquarters (or agreed to alternative) and Forest Service via commercial or Forest Service telephone. The communications system shall be operable during Contractor's Operations in Fire Precautionary Period described in AT.9 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 KT-HT.2.2# 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.</p>									
<p>o. <u>Skyline Tank Unit</u></p>	<p>When all or part of Included Timber will be yarded by a long span (over 1,500 feet) skyline, Contractor 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>									

p. Helicopter Yarding
Fire Precautions

Contractor 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.

PROJECT ACTIVITY LEVEL – KT-HT.2.2# - EMERGENCY PRECAUTIONS

Table version 12/2006

PROJECT ACTIVITY LEVEL

Level	Project Activity Requirements
A	Minimum required by KT-HT.2# 1. PAL levels are cumulative, Ev level would include all preceding PAL requirements.
B	1. A fire patrolperson 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 Contractor 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 KT-HT.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 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. 3. (Additional restrictions specified by the forest.)

<p>D</p>	<ol style="list-style-type: none"> 1. The following restrictions apply: <ol style="list-style-type: none"> a. No blasting after 10:00 AM b. Welding or cutting of metal only by special permit c. No Burning without a permit 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: <ol style="list-style-type: none"> 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. 3. (Additional restrictions specified by the forest.)
<p>Ev</p>	<ol style="list-style-type: none"> 1. The following operations are prohibited: <ol style="list-style-type: none"> a. Blasting b. Welding or cutting metal c. Burning 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. <ol style="list-style-type: none"> A. Activities that may operate all day: <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 servicing at approved sites. 4. Roads: Dust abatement or rock aggregate installation (does not include pit or quarry development) 5. Chainsaw or stroke delimeter operation associated with loading at approved landing sites. B. All other Operations are permitted until 1:00 PM local time subject to the following: <ol style="list-style-type: none"> 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. C. (Additional restrictions specified by the forest.)
<p>E</p>	<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.