AMERICAN WOOD PROTECTION ASSOCIATION STANDARD **U1-15**

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USE CATEGORY SYSTEM: USER SPECIFICATION FOR TREATED WOOD

Adopted in 1999, amended in 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, and 2015.

This Standard was developed by AWPA's Technical Committees in an open, consensus-based process. Any modifications, deviations, or exceptions to this Standard invalidate any references to this Standard and nullifies any statements of compliance with this Standard.

IMPORTANT: Wood processing and treated wood are regulated by a number of organizations in addition to AWPA (e.g., U.S. EPA, state or local governments). The existence of AWPA Standards for treated products does not imply that all other regulatory bodies recognize or permit the use of the particular combination of preservatives, processes, and/or wood species listed in the AWPA Standards.

- Introduction to the Use Category System
- Service Conditions for Use Category Designations
- Guide to Commodity Specifications for Treated Wood End Uses
- Standardized Preservatives
- Standardized Wood Species
- Commodity Specifications:
 - A. Sawn Products
 - B. Posts

- C. Crossties and Switchties
- E. Round Timber Piling
- **Wood Composites**
- Marine (Salt Water) Applications
- Fire Retardants
- Nonpressure Applications
- Nonpressure Composites

SECTION 1: INTRODUCTION TO THE USE CATEGORY SYSTEM

Jurisdiction: AWPA Technical Committee T-1

The Use Category System (UCS) of the American Wood Protection Association (AWPA) designates what preservative systems and retentions have been determined to be effective in protecting wood products under specified exposure conditions. The strength of the UCS and its focus is that all wood uses can be placed into one of five major Use Categories that clearly describe the exposure conditions that specific wood products can be subjected to in service. The major Use Categories are further broken down into subcategories to define the associated degree of biodegradation hazard and product service life expectations for specific products and exposure conditions. In addition to the five Use Categories for biodeterioration, there is a sixth and separate Use Category for fire retardant applications. The Use Category designations are described in detail in Section 2 below. The Use Category system is designed to help specifiers and product users locate the appropriate AWPA Standards that provide listing of preservatives deemed acceptable for specific products and end-use environments. The user of the AWPA Standard U1 should first become familiar with the major differences between the Use Categories and the expected service conditions as described in Section 2. This information is then used in conjunction with Section 3: Guide to Treated Wood End Uses to determine the specific Commodity Specification of the Standard that lists the appropriate preservative requirements for that use. When purchasing under the Use Category System, material orders should include the specific commodity, Use Category

designation, Standard U1 Commodity Specification, wood species, preservative and any special requirements such as preor post-treatment preparations (including conditioning and drying). Wherever practicable, material manufactured in its final form prior to treatment to eliminate the necessity for subsequent cutting or boring of the treated wood. Risk assessment documents and models (e.g., Best Management Practices) have been developed by the Western Wood Preservers Institute (www.wwpinstitute.org) for the use of CCA, ACZA, Creosote, Pentachlorophenol and ACQ treated wood in aquatic environments. Projects calling for large volumes of treated wood immersed in (i.e., below the splash zone) poorly circulating bodies of water should be evaluated on an individual basis using risk assessment procedures. There are a number of other AWPA Standards that complement Standard U1 for wood treated with preservative systems. These include:

Standard T1: Use Category System: Processing and Treatment Standard, that governs the preservative retention and penetration requirements, processing limitations, quality control and inspection requirements for treated wood.

Miscellaneous (M) Standards for Quality control and inspection items

Analytical (A) Standards to determine conformance of preservative systems, penetration, and retention. Refer to the Introduction to this Book of Standards at the front of this edition for additional information.

SECTION 2: SERVICE CONDITIONS FOR USE CATEGORY DESIGNATIONS

Jurisdiction: AWPA Technical Committees T-2, T-3, T-4, and T-8

The following is a breakdown of the Use Categories used by AWPA to describe the exposure conditions that wood may be subject to in service. This is also given in table form on the next page to summarize the major differences between Use Category groupings.

UC1 INTERIOR/DRY

Wood and wood based materials used in interior construction not in contact with the ground or foundations. Such products are protected from weather and interior sources of water such as leaking plumbing, condensate, pools and spas. Examples are interior furniture, construction furnishings, and millwork.

UC2 INTERIOR/DAMP

Wood and wood based materials used for interior construction that are not in contact with ground, but may be subject to dampness. These products are continuously protected from the weather but may be exposed to occasional sources of moisture. Examples are interior beams, timbers, flooring, framing, millwork and sill plates.

UC3 ABOVE GROUND (Exterior)

UC3A ABOVE GROUND Protected -- Wood and wood-based materials used in exterior construction that are coated and not in contact with the ground. Such products may be exposed to the full effects of weather, such as vertical exterior walls or other types of construction that allows water to quickly drain from the surface. Examples are coated millwork, siding and trim.

UC3B ABOVE GROUND Exposed -- Wood and wood based materials used in exterior construction and not in contact with the ground. Materials do not require an exterior coating, but may be finished to achieve a desired aesthetic appearance. Materials are used for a variety of applications in either horizontal or vertical positions such as decking, sills, walkways, railings and fence pickets. Note: Retentions above the minimum specified for materials in this use category may be required for products such as crossarms where the individual components are difficult to maintain, repair or replace and are critical to the performance and safety of the entire system.

UC4 GROUND CONTACT

UC4A GROUND CONTACT General Use -- Wood and wood-based materials used in contact with the ground, fresh water, or other situations favorable to deterioration. Examples are fence posts, deck posts, guardrail posts, structural lumber, timbers and utility poles located in regions of low natural potential for wood decay and insect attack.

UC4B GROUND CONTACT Heavy Duty -- Wood and wood-based material used in contact with the ground either in severe environments, such as horticultural sites, in climates with a high potential for deterioration, in critically important components such as utility poles, building poles and permanent wood foundations, and wood used in salt water splash zones. This category includes utility poles used in moist temperate climates.

UC4C GROUND CONTACT Extreme Duty -- Wood and wood based materials used in contact with the ground either in very severe environments or climates demonstrated to have extremely high potential for deterioration, in critical structural components such as land and fresh water piling and foundation piling, and utility poles located in semi-tropical or tropical environments.

UC5 MARINE USE

UC5A MARINE USE Northern Waters -- Wood and wood based materials exposed to salt and brackish water which includes Long Island, NY and northward on the east coast and north of San Francisco on the west coast to the extent that the marine borers can attack them. This includes areas where *Limnoria quadripunctata* is present, but lacks those borers listed under UC5B and UC5C. This includes piling and bracing, bulk-heading or other construction that is actually exposed at some time during the year to salt water.

UC5B MARINE USE Central Waters -- Wood and wood based materials exposed to salt and brackish water south of Long Island, NY to the southern border of Georgia on the east coast and south of San Francisco on the west coast to the extent that the marine borers can attack them. This includes areas where crossote tolerant *Limnoria tripunctata* is present, but lacks those borers listed under UC5C. This includes piling and bracing, bulk-heading or other construction that is actually exposed at some time during the year to salt water.

UC5C MARINE USE Southern Waters -- Wood and wood based materials exposed to salt and brackish water south of Georgia and along the gulf coasts in the eastern U.S., as well as Hawaii and Puerto Rico, to the extent that the marine borers can attack them. This includes areas where *Martesia* and *Sphaeroma* are present. This includes piling and bracing, bulk-heading or other construction that is actually exposed at some time during the year to salt water.

UCF FIRE RETARDANT

UCFA FIRE RETARDANT Interior -- Wood and wood based materials intended for fire protection and used in interior construction where wood material is not in contact with the ground and is protected from exterior weather.

UCFB FIRE RETARDANT Exterior -- Wood and wood based materials intended for fire protection and used in exterior construction that is not in contact with the ground or with foundations, but may be exposed to full effects of weather such as intermittent rain, dew, sunlight and wind. Materials are applied to vertical, exterior walls, inclined roof surfaces or other types of construction that allow water to quickly drain from the surface.

TABLE 2-1 SERVICE CONDITIONS FOR USE CATEGORY DESIGNATIONS

USE	SERVICE CONDITIONS	USE ENVIRONMENT	COMMON AGENTS OF	TYPICAL
CATEGORY	SERVICE CONDITIONS		DETERIORATION	APPLICATIONS
UC1 INTERIOR/	Interior construction Above Ground	Continuously protected from weather or other sources of	Insects only	Interior construction and furnishings
DRY	Dry	moisture		
UC2 INTERIOR/	Interior construction	Protected from weather, but may be	Decay fungi and insects	Interior construction
DAMP	Above Ground Damp	subject to sources of moisture		
UC3A	Exterior construction	Exposed to all weather cycles, not	Decay fungi and insects	Coated millwork, siding and
ABOVE GROUND	Above Ground Coated & rapid water runoff	exposed to prolonged wetting		trim
Protected	Coated & Tapid water Tulion			
UC3B	Exterior construction	Exposed to all weather cycles	Decay fungi and insects	Decking, deck joists, railings,
ABOVE	Above Ground	including prolonged wetting		fence pickets, uncoated millwork
GROUND Exposed	Uncoated or poor water run-off			miliwork
UC4A	Ground Contact or Fresh Water	Exposed to all weather cycles,	Decay fungi and insects	Fence, deck, and guardrail
GROUND	Non-critical components	normal exposure conditions	V	posts, crossties & utility poles
CONTACT General Use				(low decay areas)
UC4B	Ground Contact or Fresh Water	Exposed to all weather cycles, high	Decay fungi and insects with	Permanent wood foundations,
GROUND	Critical components or	decay potential	increased potential for	building poles, horticultural
CONTACT Heavy Duty	difficult replacement	includes salt water splash	biodeterioration	posts, crossties & utility poles (high decay areas)
lieuvy 2 ucy				
UC4C	Ground Contact or Fresh Water	Exposed to all weather cycles,	Decay fungi and insects with	Land & Freshwater piling,
GROUND CONTACT	Critical structural components	severe environments extreme decay potential	extreme potential for biodeterioration	foundation piling, crossties & utility poles
Extreme Duty		extreme decay potential	biodeterioration	(severe decay areas)
•				,
UC5A	Salt or brackish water	Continuous marine exposure	Salt water organisms	Piling, bulkheads, bracing
MARINE USE Northern	and adjacent mud zone which includes Long Island,	(salt water)		
Waters	NY and northward, north			
V/CED	of San Francisco			737 1 11 1 1 1
UC5B MARINE USE	Salt or brackish water and adjacent mud zone	Continuous marine exposure (salt water)	Salt water organisms Including creosote tolerant	Piling, bulkheads, bracing
Central Waters	south of Long Island, NY	(unit muter)	Limnoria tripunctata	
	to the southern border of	41		
UC5C	GA, south of San Francisco Salt or brackish water	Continuous marine exposure	Salt water organisms	Piling, bulkheads, bracing
MARINE USE	and adjacent mud zone	(salt water)	Including	
Southern	South of GA, Gulf Coast,		Martesia, Sphaeroma	
Waters	Hawaii, and Puerto Rico	Continuously	E:	Do of shoothin
UCFA FIRE	Fire protection as required by codes	Continuously protected from weather or other sources of	Fire	Roof sheathing, roof trusses, studs, joists, paneling
RETARDANT	Above Ground	moisture		, J, Panzing
Interior	Interior construction			
UĈFB	Fire protection as required	Subject to wetting	Fire	Vertical exterior walls, inclined
FIRE	by codes			roof surfaces or other
RETARDANT	Above Ground			construction which allows water
Exterior	Exterior construction	~		to quickly drain
			l	<u> </u>

SECTION 3: GUIDE TO COMMODITY SPECIFICATIONS FOR TREATED WOOD END USES

Jurisdiction: AWPA Technical Committee T-1

Section 6 of the UCS-U1 Standard lists standardized preservative systems and required retentions for specific commodities and end-uses. This section is designed to help direct users and specifiers to the governing sub-section of Section 6 for the treated wood application, and to help identify the appropriate Use Category for the intended use. Some commodities may require a retention for a specific application beyond that suggested by Section 2 of this Standard due to the critical nature of their use. Note that this section is only intended to be a guide. The designer should use their best judgment to determine the appropriate specifications for a particular use.

Table 3-1 Guide to commodity specifications for treated wood end uses, arranged by use.

Table 5-1 Guide t	o commodity specifications for	treated wood end uses, arrange		C 17	Carrie Carrian
Commodity	Use	Exposure	Use Category	Section	y Specification Special Regs.
_					Special Regs.
Bender Board	General	Ground Contact or Fresh Water	4A	A	<u> </u>
Bulkhead Sheathing	Non-Marine	Ground Contact or Fresh Water	4A	A	(1.64
a . a :	Marine	Brackish or Salt Water	5A-5B-5C	G	6.1-6.4
Cant Strips	Building Construction	Above Ground	3B	A	4.1
Composite Lumber	Structural	Above Ground, Exterior	3B	F	
(PSL & LVL)	Highway Structural, General	Ground Contact or Fresh Water	4A	F	
	Highway Structural, Important or High Decay		4B	F	
	Highway Structural, Critical or Severe Decay	Ground Contact or Fresh Water	4C	F	
Cribbing	Highway	Ground Contact or Fresh Water	4C	A	
Crossarms, Sawn	General Use	Above Ground, Exterior	3B	A	4.5
,	Critical or Hard to Replace	Above Ground, Exterior	4A		
Crossties, Switchties		Ground Contact or Fresh Water	4A	С	
	Important and/or High Decay	Ground Contact or Fresh Water	4B	C	
	Critical and/or Severe Decay	Ground Contact or Fresh Water	4C	C	
Decking	Painted/Unpainted	Above Ground, Exterior	3B	A	
20011119	Building Construction, General	Ground Contact or Fresh Water	4A	A	
	Highway Bridge Structural,	Above Ground	4B, 4C	A	4.3
	Critical/Severe Decay				
Decks, Residential	Decking (Painted/Unpainted)	Above Ground, Exterior	2D	Α.	
	Joists Railing Components		3B	A	
		Constitution Final Witten			
	Joists	Ground Contact or Fresh Water	4A	Α	
Ermonaion Doorda	Support Posts (Sawn) General	Ground Contact or Fresh Water	4A	Α	
Expansion Boards				A	
Fascia Boards	Painted/Coated	Above Ground, Exterior	3A	A	
E D' 1	Unpainted	Above Ground, Exterior	3B	A	
Fence Pickets	Painted/Coated	Above Ground, Exterior	3A	A	
D D 11	Unpainted	Above Ground, Exterior	3B	A	
Fence Rail	Painted/Coated	Above Ground, Exterior	3A	A	
	Unpainted	Above Ground, Exterior	3B	A	
TI DI	Stockyard, Agricultural	Above Ground, Exterior	4A	A	
Floor Plate	Building Construction	Above Ground, Potentially Wet	3B	A	
Flooring	Above Ground, Interior	Protected, Insect Only	1	A	4.1
	Above Ground, Interior	Protected, Damp	2	A	4.1
	Residential/Commercial, Veranda	*	3B	A	4.1
Flooring, block	Above Ground	Low Humidity	2	A	
	Above Ground	High Humidity	3A	A	
Furniture	Indoor	Protected, Insect Only	1	A	
	Outdoor	Above Ground, Exterior	3B	A	
	Outdoor	Ground Contact	4A	A	
Furring Strips	Indoor	Above Ground, Damp	2	A	
	Outdoor	Above Ground	3B	A	
Gazebo Material	Painted/Coated	Above Ground, Exterior	3A	A	
	Unpainted	Above Ground, Exterior	3B	A	

Table 3-1 Guide to commodity specifications for treated wood end uses, arranged by use. (cont.)

Table 5-1 Guide	to commodity specifications to	or treated wood end uses, arrang			
L			Use		y Specification
Commodity	Use	Exposure	Category	Section	Special Reqs.
Glued Laminated	Above Ground, Interior	Protected, Insect Only	1	F	
and Mechanically	Above Ground, Interior	Protected, Damp	2	F	
Fastened Timber	Above Ground Structural	Exterior	3B	F	
	(Painted/Unpainted)				
	General Structural, Highway	Ground Contact or Fresh Water,	4A	F	
	Structural Non-Critical	Low Decay			
	Important Structural, Highway	Ground Contact or Fresh Water,	4B	F	
	Important Structural or Saltwater				
	Splash	5 ,			
	Critical Structural or Highway	Ground Contact or Fresh Water,	4C	F	
	Critical Structural	Severe Decay			
Handrails/Guardrails	Highway Construction	Above Ground, Exterior	3B	A	4.3
Joists	Above Ground, Interior	Insect Only	1	A	4.1
001505	Above Ground, Interior	Above Ground, Damp	2	A	4.1
	Building Construction	Above Ground, Exterior	3B	A	1.1
	Building Construction	Ground Contact/Fresh Water	4A	A	
Laminated Veneer	Dunding Construction	Ground Contact/Fresh water	4A	A	
Lumber (LVL)	See Composite Lumber				
Landscape Ties	General	Ground Contact or Fresh Water	4A	A	
Lattice	Painted/Unpainted	Above Ground, Exterior	3B	A	
Lumber/Timbers	Above Ground, Interior	Insect Only	1	A	4.1
	Above Ground, Interior	Wood Exposed to Dampness	2	A	4.1
	Above Ground, Exterior,	All Applications	3A		
	Coated/Painted	H			
	General, Including	Above Ground, Exterior, Uncoated	3B	A	
	Agriculture/Farms				
	Food Harvest and Storage	Above Ground, Exterior		A	
	Roof Decking,	Above Ground, Exterior		Α	4.1
	Flooring/Subflooring				
	Food Contact	Above Ground, Exterior		A	
	General, Including Retaining	Ground Contact or Fresh Water	4A	A	
	Walls, Edging, Agri-/Mariculture,				
	Boats, Furniture, Gazebos,				
	Compost/ Plant/Mushroom				
	Boxes, Flumes				
	Fire Escapes, Exterior Exposed	Above Ground and Ground Contact		A	
	Wet Industrial Processing Areas	Above Ground and Ground Contact		A	
	Cooling Towers	Fresh Water Contact		A	4.4
	Brine Storage, Highway	Ground Contact or Fresh Water		В	4.1
	Construction Materials				•
	Playground Equipment	Ground Contact or Fresh Water		В	4.3
	Permanent Wood Foundation	Ground Contact and Above Ground	4B	A	4.2
	Highway Construction,	Ground Contact or Fresh Water	_	A	4.3
	Residential/Business Structural				
	Support				
	Crib Walls, Retaining Walls,	Ground Contact or Fresh Water		A	
	Important Structural, Greenhouse				
	Marine Out of Water and Above	Salt Water Splash		A	G-2.9
	Ground	•			
	Marine Out of Water and Ground	Salt Water Splash	4C	A	G-2.9
	Contact	r			
	Aquaculture	Fresh Water		A	
	Residential/Business Structural	Ground Contact or Fresh Water			
	Support				
	Marine, Aqua/Mariculture,	Brackish or Salt Water	5A-5B-5C	G	6.1-6.4
	Highway, Boats				
	Fire Retardant, Fire Protection	Interior	FA	Н	
	Fire Retardant, Fire Protection	Exterior	FB	Н	
L			1.0	**	

Table 3-1 Guide to commodity specifications for treated wood end uses, arranged by use. (cont.)

•	r treated wood end uses, arrange			y Specification
Use	Exposure			Special Reqs.
				4.1
				4.1
				4.1
		3B	A	
See Composite Lumber				
Pergola	Ground Contact or Fresh Water	4A	A	125
Building Construction,	Ground Contact	4C	Е	
	Ground Contact or Fresh Water	4C	Е	
	Brackish or Salt Water		G	6.1-6.4
Residential/Business Structural Support	Ground Contact or Fresh Water	4B	A	
Residential/Business Structural Support, Critical	Ground Contact or Fresh Water	4C	A	
		2	F	
General, Including Agriculture/Farms	Above Ground, Exterior	3B	F	A
Food Harvest-Storage-Contact	Above Ground, Exterior		F	
Roof Decking,	Above Ground, Exterior		F	2.6
Flooring/Subflooring				
General: Including Edging,				
				_
		4A	F	
			_	.
Construction Materials				B-4.1
		4B		
	Ground Contact and Above Ground		A	4.2
Boat Building	Brackish or Salt Water	5A-5B-5C	G	
Fire Retardant, Fire Protection				
		FB	Н	
	Low Decay	4A	D	
Construction, Lighting	Moderate Decay	4B	D	
	Ground Contact or Fresh Water	4B	В	4.4
	High Decay	4C	D	
Agricultural/Farm	Ground Contact or Fresh Water	4A	A	
Structural Building	Ground Contact or Fresh Water, Moderate Decay	4B	A	
Utility Poles	Ground Contact or Fresh Water, Low or Moderate Decay	4A/4B	D	6
Utility Poles	Ground Contact or Fresh Water, High Decay	4C	D	6
	Pergola Building Construction, Completely Embedded in Soil Highway Construction Marine/Highway Construction Residential/Business Structural Support Residential/Business Structural Support, Critical Above Ground, Interior, Subfloor General, Including Agriculture/Farms Food Harvest-Storage-Contact Roof Decking, Flooring/Subflooring General: Including Edging, Agriculture, Mariculture, Boats, Furniture, Gazebos, Compost/Plant/Mushroom Boxes, Flumes Brine Storage, Highway Construction Materials Wet Industrial Processing Areas Fire Escapes, Exterior Exposed Marine Permanent Wood Foundation Marine/Highway Construction, Boat Building Fire Retardant, Fire Protection Fire Retardant, Fire Protection Agricultural Use, Utility Agricultural Use, Utility, Highway Construction, Lighting Building Structural Utility, Lighting Agricultural/Farm Structural Building Utility Poles	Above Ground, Interior Above Ground, Interior Above Ground, Interior Painted/Coated Unpainted Above Ground, Exterior See Composite Lumber Pergola Ground Contact or Fresh Water Building Construction, Completely Embedded in Soil Highway Construction Marine/Highway Construction Residential/Business Structural Support Residential/Business Structural Support, Critical Above Ground, Interior, Subfloor General, Including Agriculture/Farms Food Harvest-Storage-Contact Roof Decking, Flooring/Subflooring General: Including Edging, Agriculture, Mariculture, Boats, Furniture, Gazebos, Compost/Plant/Mushroom Boxes, Flumes Brine Storage, Highway Construction Materials Wet Industrial Processing Areas Fire Escapes, Exterior Exposed Marine Permanent Wood Foundation Marine/Highway Construction, Boat Building Fire Retardant, Fire Protection Agricultural Use, Utility Ground Contact or Fresh Water Agricultural Use, Utility Ground Contact or Fresh Water, Low Decay Agricultural/Farm Ground Contact or Fresh Water, High Decay Agricultural/Farm Ground Contact or Fresh Water, High Decay Utility Poles Ground Contact or Fresh Water, Low or Moderate Decay Utility Poles Ground Contact or Fresh Water, Low or Moderate Decay Utility Poles Ground Contact or Fresh Water, Low or Moderate Decay Utility Poles	Above Ground, Interior Above Ground, Damp Above Ground, Exterior Above Ground Contact or Fresh Water Ground Contact or Fresh Water Accomposite Lumber Ground Contact or Fresh Water Accomposite Lumber Ground Contact or Fresh Water Above Ground, Exterior Above Ground, Interior, Subfloor General, Including Agriculture/Farms Food Harvest-Storage-Contact Roof Decking, Flooring/Subflooring General: Including Edging, Agriculture, Mariculture, Boats, Furniture, Gazebos, Compost/Plant/Mushroom Boxes, Flumes Brine Storage, Highway Construction Materials Wet Industrial Processing Areas Fire Escapes, Exterior Exposed Marine Agricultural Use, Utility Fire Retardant, Fire Protection Agricultural Use, Utility Agricultural Use, Utility Fire Retardant, Fire Protection Agricultural Use, Utility Fire Retardant, Fire Protection Agricultural Use, Utility Fire Retardant, Fire Protection Agricultural Use, Utility Fire Moderate Decay Building Structural Utility, Lighting Ground Contact or Fresh Water, High Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles Ground Contact or Fresh Water, Moderate Decay Utility Poles	Use Exposure Category Section Above Ground, Interior Above Ground, Damp 2 A Above Ground, Interior Above Ground, Exterior 3A A A A Above Ground, Exterior 3A A A A Above Ground, Exterior 3B A A A Above Ground, Exterior 3B A A A A Above Ground Contact or Fresh Water 4A A A B Exposer Above Ground Contact or Fresh Water 5B A-5B-5C G G Above Ground Gontact or Fresh Water 5B A-5B-5C G G G G Ground Contact or Fresh Water 5B A-5B-5C G G G G G G G G G G G G G G G G G G G

Table 3-1 Guide to commodity specifications for treated wood end uses, arranged by use. (cont.)

Table 5-1 Guide t	o commounty specifications to	r treated wood end uses, arrang	· · · · · ·		· Cifti
C	TT	F	Use		Specification
Commodity	Use	Exposure	Category	Section	Special Reqs.
Posts	General, Fence, Highway				
Round, ½ & ¼	Construction Including Guide,	Ground Contact or Fresh Water	4A	В	
Round	Sign and Sight				
	Playground Equipment	Ground Contact or Fresh Water	4A	В	
	Highway Construction, Including		4B	В	
	Guardrail Posts, Spacer Blocks	Moderate Decay			
	Building Construction	Ground Contact or Fresh Water	4B	В	4.4
	Agricultural Used as Round	Ground Contact or Fresh Water,	4B	В	4.2.1
	Structural Members	Moderate Decay	40	В	4.2.1
	Brine Storage, Highway	Ground Contact or Fresh Water,	4B	В	4.1.2
		Moderate Decay		В	4.1.2
Posts (Sawn 4 Sides)	General, Fence, Deck Support	Ground Contact or Fresh Water	4A	A	
	Highway Construction, General	Ground Contact or Fresh Water	4A	A	
	Playground Equipment	Ground Contact or Fresh Water	4A	В	4.3
	Agricultural Use, Spacer Blocks	Ground Contact or Fresh Water,	4B	A	
		Moderate Decay		A	
	Important Building Structural	Ground Contact or Fresh Water	4C	A	
Purlins	Above Ground, Interior	Insect Only	1	Α	
		Above Ground, Damp	2		
	Painted/Coated	Above Ground, Exterior	3A	A	
	Unpainted	Above Ground, Exterior	3B	A	/4
Shakes and Shingles	Painted or Unpainted	Above Ground, Exterior	3B	A	4.6
Siding (Beveled or	Painted/Coated		2.4		4.1
Not)		Above Ground, Exterior	3A	A	4.1
	Unpainted	Above Ground, Exterior	3B	A	
Sill Plates	Interior	Above Ground, Damp	2	A	4.1
Skirtboard	Post Frame Construction	Ground Contact	4A	A	
Stakes (Sawn 4	Grape, Agriculture	Ground Contact/Fresh Water	4A	A	
Sides)					
	See Composite Lumber				
Lumber	Production of the control of the con				
Studs	Building Construction, Interior	Insect Only	1	A	4.1
	Building Construction, Interior	Wood Exposed to Dampness	2	A	4.1
Ties	Mine and Bridge	Ground Contact or Fresh Water	4A	В	<u> </u>
	This are stage	Brackish or Salt Water	5A-5B-5C	G	6.1-6.4
Trusses	Roof	Insect Only	1	A	4.1
1143503	Roof	Wood Exposed to Dampness	2	A	4.1
	Floor	Above Ground	3B	A	4.1
Utility Poles	Distribution, Transmission,	Above Ground	30	A	4.1
Othlity Poles	Laminated, General	Ground Contact or Fresh Water	4A	D	
	Distribution, Transmission,	Ground Contact or Fresh Water,			
	Laminated, Important	High Decay	4B	D	
	Distribution, Transmission,	Ground Contact or Fresh Water,			
	Laminated, Critical	Severe Decay	4C	D	
Veranda supports	Veranda Supports	Ground Contact or Fresh Water	4A	A	
veranda supports	v Cranda Supports	Ground Contact of Fresh Water	7/1	А	

SECTION 4: STANDARDIZED PRESERVATIVES

Jurisdiction: AWPA Technical Committee T-1

Table 1. Preservatives for Pressure Treatment Processes

	P Standard	Preservative	Retention	Preservative Carrier		
Abbreviation	Reference		Basis, as			
		Oilborne and Creosote-l	Based			
CR	P1/P13	Creosote	Creosote	Not applicable		
CR-S	P2	Creosote Solution	Creosote Solution	Not applicable		
CR-PS	Р3	Creosote-Petroleum Solution	Creosote plus Petroleum	Petroleum Oil		
Cu8	P37	Oxine Copper	Copper	Hydrocarbon Solvent Type C		
CuN	P36	Copper Naphthenate	Copper	Hydrocarbon Solvent Type A		
PCP-A	P35	Pentachlorophenol (Penta) Solvent A	PCP	Hydrocarbon Solvent Type A		
PCP-C	P35	Pentachlorophenol (Penta) Solvent C	PCP	Hydrocarbon Solvent Type C		
PCP-G	P35	Pentacholorphenol (Penta) Solvent G	PCP	Hydrocarbon Solvent Type G		
SBX-O	P60	Inorganic Boron, Oilborne	B_2O_3	Creosote, Creosote Solution		
		Waterborne, Acid-bas	sed			
CCA	P23	Chromated Copper Arsenate Type C	Metal Oxides	Water		
		Waterborne, Alkali-based (ami	ne/ammonia)			
ACQ-A	P26	Alkaline Copper Quat Type A	CuO + Quat	Water		
ACQ-B	P27	Alkaline Copper Quat Type B	CuO + Quat	Water		
ACQ-C	P28	Alkaline Copper Quat Type C	CuO + Quat	Water		
ACQ-D	P29	Alkaline Copper Quat Type D	CuO + Quat	Water		
ACZA	P22	Ammoniacal Copper Zinc Arsenate	Metal Oxides	Water		
СА-В	P32	Copper Azole Type B	Cu + azole	Water		
CA-C	P48	Copper Azole Type C	Cu + azoles	Water		
CX-A	P33	Copper HDO Type A	$CuO + H_3BO_3 + HDO$	Water		
KDS	P55	Alkaline Copper Betaine	CuO + DPAB + H ₃ BO ₃	Water		
KDS-B	P56	Alkaline Copper Betaine Type B	CuO + DPAB	Water		
		Waterborne, Other	•			
CuN-W	34	Waterborne Copper Naphthenate	Copper	Water		
EL2	47	4,5-dichloro-2-n-octyl-4-isothiazolin-3-one (DCOI) and 2-Imidazolidinimine, 1-((6-chloro-3-pyridinyl)methyl)-nitro (Imidacloprid)	DCOI + Imidacloprid	Water		
PTI	P45	Propiconazole Tebuconazole Imidacloprid	Propiconazole Tebuconazole Imidacloprid	Water		
SBX	P25	Inorganic Boron (SBX)	B_2O_3	Water		

Table 2. Protectants for Fire-Retardant Treatment Processes

Protectant Abbreviation	P Standard Reference	Protectant	P	Preservative Carrier			
FR-1	P49	FR-1	Not Available		Water		
FR-2	P50	FR-2	Not Available		Water		

Table 3. Preservatives for Non-Pressure Treatment Processes

Preservative Abbreviation	P Standard Reference	Preservative	Retention Basis	Preservative Carrier							
Abbieviation	Keterence	Oilborne and Creosote-ba	sed								
Cu8	P37	Oxine Copper	Oxine Copper	Hydrocarbon Solvent Type C or F							
CuN	P36	Copper Naphthenate	Copper	Hydrocarbon Solvent Type C or F							
		Waterborne, Other									
AAC-W	P24	Alkyl Ammonium Compound, Waterborne	Not Available	Water							
	Light Organic Solvent Systems										
AAC	P38	Alkyl Ammonium Compound, Oilborne	Not Available	Hydrocarbon Solvent Type C							
DCOI	P39	4.5-dichlor-2-N-octyl-4-Isothiazolin-3-one (Isothiazolin) (Note b)	Not Available	Hydrocarbon Solvent Type C							
IPBC	P40	3-iodo-2 propynyl butyl carbamate (Note b)	Not Available	Hydrocarbon Solvent Type C							
PPZ	P42	1-[2-(4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-Γ L-methyl]-1H-1,2,4-triazole (Propiconazole) (Note b)	Not Available	Hydrocarbon Solvent Type C							
ТЕВ	P41	Γ-(2(4(chlorophenyl)ethyl-y-(1,1-dimethylethyl)-1H-1,2,4-Triazole-1 Ethanol (Tebuconazole) (Note b)	Not Available	Hydrocarbon Solvent Type C							
		Preservative Added During Man	nufacture								
KDS	KDS P57 Alkaline Copper Betaine			Water							
ZB	P51	Zinc Borate	2ZnO•3B ₂ O ₃ •3.5H ₂ O	Not Applicable							

Table 4. Preservatives for Thermal Treatment Processes

Preservative Abbreviation	P Standard Reference	Preservative	Retention Basis	Preservative Carrier
CuN	P36	Copper Naphthenate	Copper	Hydrocarbon Solvent Type A
PCP-A	P35	Pentachlorophenol (Penta) Solvent A	PCP	Hydrocarbon Solvent Type A

Table 5. Protectants for Nonbiocidal Treatment Processes

Protectant Abbreviation	P Standard Reference	Protectant	Retention Basis	Protectant Carrier
CM-A P59 Chemical M		Chemical Modification by Acetylation	% Bound Acetyl	Not Applicable

SECTION 5: SPECIES AND SPECIES GROUPINGS REFERENCED IN AWPA STANDARDS

Jurisdiction: AWPA Technical Committee T-1

The individual species and species groupings listed herein have been included in AWPA Standards because experience has shown that it is possible to treat them successfully, with at least some preservative systems. Listing of a species in these tables does not imply that they are listed for all preservative systems, or that a preservative system appropriate to specific applications is listed or available.

Most species are treated either as sawn or round commodities. Other species groupings, such as those listed in the grade books of various ALSC-accredited grading agencies may contain a mix of species which cannot be readily separated, or properly treated as a whole. Grade marks are an acceptable means of species identification, but only sawn material is grade-marked. To predict treatability, species should be positively identified. The following list includes species groupings that are commonly treated under AWPA Standards, which are described under Notes 1-9 below. Treating of other species groupings should be avoided unless individual species identification can be made by a means acceptable to both buyer and seller. However,

acceptance under AWPA Standards is ultimately governed by preservative penetration and retention. The listing of a preservative with a species or species group does not necessarily imply the species or the species group is treated regularly with any specific preservative. Prior to specifying a species for a given application, it should be cross-referenced with specific Commodity Specifications in Section 6, and information should be obtained on the availability of a species preservative combination.

Species Treatability and Variability. Some species are difficult to treat to the requirements of the AWPA Standards even when incised. Individual pieces or lots within a species or species grouping may vary, sometimes significantly in their treatability. Prior to specifying a species or species group for any commodity and preservative, accurate information should be obtained about the treatability and the variability of the species or species group. The recognized common and scientific names of wood species used in AWPA Standards are as follows:

Notes and Footnotes for Species Names and Listings in Section 5 Tables UCS-U1 – Use Category System: User Specification for Treated Wood Products

- ¹ Coastal = West of Summit of Cascade Mountains; Intermountain = East of Cascade Summit.
- ² Usually, but not always.
- ³ For sawn products treated with CCA, Western larch was removed from AWPA Standards with prejudice. For ammoniacal copper preservatives and pentachlorophenol, Western larch was removed from AWPA Standards without prejudice.
- Note 1: Southern Pine includes Pinus echinata (shortleaf), P. elliottii (slash), P. palustris (longleaf), P. taeda (loblolly)
- Note 2: Mixed Southern pine includes all Southern Pine species plus Pinus serotina (pond) and P. virginiana (Virginia)
- Note 3: Hem-fir includes Tsuga heterophylla, Abies amabilis (pacific silver), A. concolor (white), A. grandis (grand), A. magnifica (Cal. red), A. procera (nobel)
- Note 4: Hem-fir North includes Tsuga heterophylla, Abies amabilis
- Note 5: Spruce-Pine-Fir includes Abies balsamea, A. lasiocarpa, Picea engelmannii, P. glauca, P. mariana, P. rubrens, Pinus banksiana, P. contorta
- Note 6: Spruce-Pine-Fir West (NLGA Grade Rules) is a Western Canadian subset of Spruce-Pine-Fir that is graded Northern Lumber Grading Association (NLGA) rules, but only by the following Western Canadian agencies: Alberta Forest Products Association (AFPA), Caribou Lumber Manufacturers Association (CLMA), Canadian Mill Services Association (COFI), Interior Lumber Manufacturers Association (ILMA), Northern Forest Products Association (NFPA). It includes Abies lasiocarpa, Picea engelmannii, P. mariana, P. plauca, Pinus contorta
- Note 7: Red Oak includes Quercus coccinea, Q. elllipsoidalis, Q falcata, Q. kelloggii, Q. laevis, Q. laurifolia, Q. marilandica, Q. nigra, Q. nuttallii, Q. palustris, Q. phellos, Q. rubra, Q. shumardii and Q. velutina
- Note 8: White Oak includes Quercus alba, Q. prinus, Q stellata, Q. lyrata, Q. michauxii, Q. macrocarpa, Q. muehlenbergii, Q. bicolor, and Q. virginiana.
- Note 9: Scots Pine-Ger is *Pinus sylvestris* from Germany as certified by a qualified third-party agency.
- Note 10: Scots pine-Swe is *Pinus sylvestris* from Sweden as certified by a qualified third-party agency.
- Note 11: Patula Pine is *Pinus patula* from South Africa and a component of African Montane Pine as certified by a qualified third-party agency.

U1-15

~			<u> </u>	Sawn Products											
Comm		Scientific					istings		·			Shakes	Cooling	Sawn	Bridges
Name(s)	Name(s)	UC1&2	UC3	UC4A	UC4B	UC4C	UC5A	UC5B	UC5C	PWF	Shingles	Towers	X-arms	highway
Dougla	as-fir														
_	Coastal (Oregon Pine/Red Fir) ¹	Pseudotsuga menziesii var. menziesii²	X	X	X	X	X	X	X	X	X		X	X	X
	Interior (Mountain or Intermountain) ¹	Pseudotsuga menziesii var. glauca ²)								
Pines	•					4									
	Southern	Note 1	X	X	X	X	X	X	X	X	X	X	X	X	X
	Mixed Southern	Note 2	X	X	X	X	X	X	X	X					
	Ponderosa	P. ponderosa	X	X	X	X	X	X	X	X	X		X		
	Jack	P. banksiana	X	X	X	X	X								
	Lodgepole	P. contorta	X	X	X X	X	X								
	Eastern White (Northern White)	P. strobus	X	X	X	X	X								
	Radiata	P. radata	X	X	X	X	X	N N							
	Caribbean (Ocote, Honduras)	P. caribaea, P.oocarpa	X	X	X	X	X	\ \							
	Red (Norway)	P. resinosa	X	X	X	X	X	X	X	X	Y				
	Spruce	Pinus glabra	X	X	X	X	X	Λ	71	1					
	Scots Pine – Ger	Note 9	X	X	X	X	Λ				\mathbf{v}				
	Scots Pine – Swe	Note 10	X	X	X	X					X				
	Patula	Note 11	X	X	X	X					X				
- ·				_			N.				Λ		37		
Redwo		Sequoia sempervirens	X	X	X	X	X						X		
Hemlo	ocks, Spruces, True Firs	N-4- 2	X	v	V	V	v	v	V	v	v		v	v	v
	Hem-fir	Note 3		X	X	X	X	X	X	X	X		X	X	X
	Hem-fir North	Note 4	X	X	X	X	X	X	X X	X	37		X	X	X
	Western Hemlock	Tsuga heterophylla	1					X	X	X	X		X	X	X
	Eastern Hemlock	Tsuga canadensis	X	X	X										
	Subalpine (alpine) Fir	Abies lasiocarpa	X	X	X	X	X				X				
	Spruce-Pine-Fir	Note 5	X												
	Spruce-Pine-Fir West	Note 6	X	X	X	X	X								
	Sitka Spruce	Picea sitchensis	X	X	X	X	X								
	Western White Spruce	Picea glauca	X	X	X	X	X								
	Englemann Spruce	Picea engelmannii	X	X	X	X	X								
Weste	rn Larch³	Larix occidentalis												X	
Cedar															
	Western Red Cedar	Thuja plicata	X	X								X			
	Alaska Yellow Cedar	Chemaecyparis nootkatensis	X	X											
	Northern White Cedar	Thuja occidentalis													
	Incense Cedar	Libocedrus decurrens	X	X											
Baldev	ypress (cypress)	Taxodium distichum													
Hardy															
	Oak	all Quercus sp.						X	X	X					
	Red Oak	Note 7	X	X	X										
	White Oak	Note 8	X	X	X										
	Maple	Acer sp.	X	X	X										
	Red Maple	Acer rubrum		l											
	Black Gum	Nyssa spp.	X	X	X			X	X	X					
	Red (sweet) Gum	Liquidambar spp.	X	X	X			X	X	X					
	Hickory	Carya spp.		2.	2.			1	1	2.					
	Yellow Poplar	Liriodendron tulipifera													
	Mixed Hardwoods	All other N.A. hardwood species													
	IVIIACU IIAIUWUUUS	An outer iv.A. nardwood species	11		1		1	1							<u> </u>

-	pecks runnes and Eistings in 61 - 650 Category Systems oser Specification for France 7,000 Franc												
			Posts Structural Poles/Posts			Crossties		Utility Poles					
Common		Scientific	Ger	neral	Farm	building	switchties		General		Glue-lam	Therm	
Name(s)		Name(s)	UC4A	UC4B	UC4Bmod	UC4B	UC4	UC4A	UC4B	UC4C	UC4A-C	UC4A&B	UC4C
Douglas-fi	r					V							
	Coastal (Oregon Pine/Red Fir) ¹	Pseudotsuga menziesii var. menziesii ²	X	X	X	X	X	X	X	X	X		
	Interior (Mountain or Intermountain) ¹	Pseudotsuga menziesii var. glauca²			X		X						
Pines		-											
	Southern	Note 1	X	X	X	X	X	X	X	X	X		
	Mixed Southern	Note 2				1							
	Ponderosa	P. ponderosa	X	X	X	X	X	X	X	X			
	Jack	P. banksiana	X	X	X		X X	X	X	X			
	Lodgepole	P. contorta	X	X	X		X	X	X	X			
	Eastern White (Northern White)	P. strobus	\										
	Radiata	P. radata	X	X	X	X	•	X	X	X			
	Caribbean (Ocote, Honduras)	P. caribaea, P.oocarpa							PA				
	Red (Norway)	P. resinosa	X	X	X	X	X	X	X	X			
	Spruce	Pinus glabra											
Redwood	•	Sequoia sempervirens											
Hemlocks.	Spruces, True Firs	1											
	Hem-fir	Note 3											
	Hem-fir North	Note 4						ŀ					
	Western Hemlock	Tsuga heterophylla	Χ_	X			X						
	Eastern Hemlock	Tsuga canadensis											
	Subalpine (alpine) Fir	Abies lasiocarpa											
	Spruce-Pine-Fir	Note 5											
	Spruce-Pine-Fir West	Note 6											
	Sitka Spruce	Picea sitchensis				/1							
	Western White Spruce	Picea glauca											
	Englemann Spruce	Picea engelmannii											
Western L		Larix occidentalis	X	X	X		X	X	X	X		X	X
Cedars	MI CII	Zan in occupants	- 11										
Cums	Western Red Cedar	Thuja plicata			X			X	X	X		X	X
	Alaska Yellow Cedar	Chemaecyparis nootkatensis						X	X	X		X	X
	Northern White Cedar	Thuja occidentalis										X	X
	Incense Cedar	Libocedrus decurrens											
Raldcynre	ss (cypress)	Taxodium distichum											
Hardwood		1 distribution											
Tara wood	Oak	all Quercus sp.					X						
	Red Oak	Note 7											
	Maple	Acer sp.											
	Red Maple	Acer rubrum											
	Black Gum	Nyssa spp.											
	Red (sweet) Gum	Liquidambar spp.											
	Hickory	Carya spp.					X						
	Yellow Poplar	Liriodendron tulipifera					Λ						
	Mixed Hardwoods	All other N.A. hardwood species					X						
	Wincu Haluwoous	An other IV.A. Hardwood species	11				Λ	1					

	system eser specification for freated wood fr	Round	Glue-Lam						
Common	Scientific	Piling	Treated after Gluing				hefore (before Gluing	
Name(s)	Name(s)	UC4C	UC1-3B	UC4A	UC4B	UC4C	UC1-3B	UC4A	
	rvanic(s)	0040	0C1-3B	0C4A	UC4B	0040	0C1-3B	UC4A	
Douglas-fir Coastal (Oregon Pine/Red Fir) ¹	Pseudotsuga menziesii var. menziesii²	X		X	v	X	X	X	
Interior (Mountain or Intermountain) ¹	Pseudotsuga menziesti var. menziesti Pseudotsuga menziesti var. glauca²	X	^	Λ	A	^	Λ	Λ	
,	r seudoisuga menziesii var. giauca	A							
Pines Southern	Note 1	X	X	X	X	X	X	X	
Mixed Southern	Note 2	Λ	A	Λ	A	Λ	Λ	Λ	
Ponderosa	P. ponderosa	A V							
Jack	P. banksiana	X							
Lodgepole	P. contorta	A V							
Eastern White (Northern White)	P. strobus	Λ							
Radiata	P. radata								
Caribbean (Ocote, Honduras)	P. caribaea, P.oocarpa	v	•						
Red (Norway)	P. resinosa	X							
Spruce	Pinus glabra								
Redwood	Sequoia sempervirens								
Hemlocks, Spruces, True Firs				•					
Hem-fir	Note 3		X	X			X	X	
Hem-fir North	Note 4								
Western Hemlock	Tsuga heterophylla		X	X			X	X	
Eastern Hemlock	Tsuga canadensis								
Subalpine (alpine) Fir	Abies lasiocarpa								
Spruce-Pine-Fir	Note 5								
Spruce-Pine-Fir West	Note 6								
Sitka Spruce	Picea sitchensis								
Western White Spruce	Picea glauca								
Englemann Spruce	Picea engelmannii								
Western Larch ³	Larix occidentalis	X							
Cedars									
Western Red Cedar	Thuja plicata								
Alaska Yellow Cedar	Chemaecyparis nootkatensis								
Northern White Cedar	Thuja occidentalis								
Incense Cedar	Libocedrus decurrens								
Baldcypress (cypress)	Taxodium distichum								
Hardwoods									
Oak	all Quercus sp.	X							
Red Oak	Note 7		X	X]	
Maple	Acer sp.			1]	
Red Maple	Acer rubrum		X	X					
Black Gum	Nyssa spp.								
Red (sweet) Gum	Liquidambar spp.			1]	
Hickory	Carya spp.								
Yellow Poplar	Liriodendron tulipifera		X	X]	
Mixed Hardwoods	All other N.A. hardwood species			1	1	1		1	

<u> </u>	3 7 7	em. Oser Specification for Treated wood Front									
Common	Structural Composite Lu on Scientific PSL			posite Luii	LVL			Marine Piling			
Name(s)		Name(s)	UC1-3B	UC4A	UC4B	UC1-3B	UC4A	UC4B	UC5A	UC5B	UC5C
Douglas-fir		T (anie(o)	00135	00.11	l V	00132	30.11	V V	00011	0000	0000
Douglas-III	Coastal (Oregon Pine/Red Fir) ¹	Pseudotsuga menziesii var. menziesii²	X	X	X				X	X	X
	Interior (Mountain or Intermountain) ¹	Pseudotsuga menziesii var. glauca ²	71			4			71	1	21
Pines	menor (wouldern or mermountain)	1 seudoisaga menziesti var. gianea									
Tines	Southern	Note 1	X	X	X	X	X	X	X	X	X
	Mixed Southern	Note 2	1	1	1	71	24		21	11	21
	Ponderosa	P. ponderosa									
	Jack	P. banksiana									
	Lodgepole	P. contorta									
	Eastern White (Northern White)	P. strobus									
	Radiata	P. radata									
	Caribbean (Ocote, Honduras)	P. caribaea, P.oocarpa									
	Red (Norway)	P. resinosa							X	X	X
	Spruce	Pinus glabra		30							
Redwood	~p-m-t	Sequoia sempervirens									
	Spruces, True Firs	sequeta semper ru ens									
Tremioens, s	Hem-fir	Note 3									
	Hem-fir North	Note 4				\bigcirc					
	Western Hemlock	Tsuga heterophylla		·							
	Eastern Hemlock	Tsuga canadensis									
	Subalpine (alpine) Fir	Abies lasiocarpa									
	Spruce-Pine-Fir	Note 5									
	Spruce-Pine-Fir West	Note 6									
	Sitka Spruce	Picea sitchensis									
	Western White Spruce	Picea glauca									
	Engelmann Spruce	Picea engelmannii									
Western La	Č 1	Larix occidentalis									
Cedars											
	Western Red Cedar	Thuja plicata									
	Alaska Yellow Cedar	Chemaecyparis nootkatensis									
	Northern White Cedar	Thuja occidentalis									
	Incense Cedar	Libocedrus decurrens									
Baldcypress		Taxodium distichum									
Hardwoods											
	Oak	all Quercus sp.									
	Red Oak	Note 7									
	Maple	Acer sp.									
	Red Maple	Acer rubrum				X	X	X			
	Black Gum	Nyssa spp.									
	Red (sweet) Gum	Liquidambar spp.									
	Hickory	Carya spp.									
	Yellow Poplar	Liriodendron tulipifera	X	X		X	X	X			
	Mixed Hardwoods	All other N.A. hardwood species									

SECTION 6: COMMODITY SPECIFICATIONS

Jurisdiction: AWPA Technical Committees T-2, T-3, T-4, and T-8

Section 6 provides a listing of all AWPA specifications for treated wood commodities. It is organized into a series of subsections for major commodity classifications and provides information on the listed preservative systems and species/species groupings that can be treated under AWPA Standards for each Use Category (use exposure condition). Use category descriptions are given in Section 2. If a user/specifier is unsure where to look up a specific commodity and end-use within these tables, they should consult Section 3 of this standard for specific commodity references. In all cases, treated material should be clean of preservative deposits and suitable for its intended end use. Material treated with creosote, creosote solutions, or oil borne preservatives in Use Categories UC1 through UC5 shall be supplied reasonably free of exudate and surface deposits. Material treated with waterborne preservatives shall be supplied free of visible surface deposits. Drying after treatment of material treated with waterborne preservatives is sometimes required or desirable for dimensional stability and should be specified. When drying after treatment is required, the moisture content in each piece of lumber shall not exceed 19% or that allowed by National Grading Rules for the species and size specified to be dried. The moisture content in each piece of plywood shall not exceed 18%.

SUB-SECTIONS OF SECTION 6:

COMMODITY SPECIFICATIONS

- A. Sawn Products
- B. Posts
- C. Crossties and Switchties
- D. Poles
- E. Round Timber Piling
- F. Wood Composites
- G. Marine (Salt Water) Applications
- H. Fire Retardants
- I. Nonpressure Applications
- J. Nonpressure Composites

Location of Some Specialized Commodities, not otherwise obvious:

Permanent Wood Foundation (PWF)

Both Lumber and Plywood: Commodity Specification A, Section 4.2

Playground Material

Lumber, rounds (Posts/poles): Commodity Specification B, Section 4.3

Round Building Poles and Posts

Both poles and posts: Commodity Specification B, Section 4.4