

Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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Amend 14 CCR § 895.1. Definitions				
895.1	New	Creates a definition of "abandoned road"	Proactive removal of road from permanent road network.	Technical
895.1	895.1	Changes definition of "abandonment"	Replaces existing definition. Better clarifies what constitutes road abandonment	Technical
			Definition for undefined T&I term. NOTE: Delete from proposal. ASP rules delete term and incorporates clarification in revised 916.9(o).	ASP
895.1	895.1	Changes definition of "berm"	Provide greater clarity as to what constitutes a berm and what it is used for	Technical
895.1	New	Creates definition of "connected headwall swale" for use in watersheds without Coho Salmon	Provides additional descriptive criteria used to evaluate the existence of such a feature that were not included in the definition for term used in rule package. Coho Salmon Incidental Take Assistance, 2007. The BOF will likely rescinded several rule sections pursuant to 2009 rulemaking: Coho Salmon Incidental Take Assistance Repeal, 2009; the associated definitions will likely be repealed as well	Policy
895.1	New	Creates definition of "critical dip"	Common term describing treatment to address diversion potential	Technical
895.1	New	Creates definition of "crowning"	Provide definition for term used in rule package	Technical
895.1	New	Creates definition of "deactivated road" Proactive placement of road into temporary storage for future use	Provide definition for term used in rule package	Technical
895.1	New	Creates definition of "deactivation"	Provide definition for term used in rule package	Technical
895.1	895.1	Changes definition of "end-hauling"	Clarifies end-hauling is removal of excess material	Technical
895.1	895.1	Changes definition of "excess material"	Clarifies excess material constitutes excavated material and is synonymous with "spoils"	Technical
			Clarifies fifty-year flood flow has two percent	ASP

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			chance of occurrence and how it can be estimated. <u>Delete from proposal; ASP definition of "flood flow" addresses.</u>	
895.1	895.1	Changes definition of "fill"	Clarifies mechanical placement in lifts and <u>includes</u> use as material in logging road watercourse crossing construction	Technical
895.1	New	Creates definition of "ford"	Provide definition for term used in rule package <u>Definition for common crossing type used in rule package</u>	Technical I
895.1	New	Creates definition of "harvest area"	Provide definition for term used in rule package	Policy
895.1	New	Creates definition of "insloping"	Provide definition for term used in rule package	Technical I
			Provide definition for term used in rule package. <u>Delete from proposal; ASP definition of "flood flow" addresses.</u>	ASP
895.1	New	Creates definition of "outsloping"	Provide definition for term used in rule package	Technical
895.1	895.1	Changes definition of "permanent road"	Simplifies the current definition of permanent road	Technical
895.1	895.1	Changes definition of "permanent road network"	Changes definition to add "deactivated road" as a component of permanent road network. <u>Deactivated roads, although temporarily placed in storage, will be used again.</u>	Technical
895.1	895.1	Changes definition of "permanent watercourse crossing"	Clarifies permanent watercourse crossing is meant to stay in place when timber operations are completed. <u>Deletes flood flow standard criteria.</u>	Technical
895.1	895.1	Changes definition of "prescribed maintenance period"	Simplifies the definition by removing statement about period not exceeding three years. <u>The specific applicable period is specified in the rules.</u>	Technical
895.1	895.1	Changes definition of "public road"	Adds federal and city roads as components of a public road system	Policy
<u>895.1</u>	<u>895.1</u>	<u>Definition of "saturated soil conditions".</u>	<u>NOTE: RRTF did not "tackle" possible changes to the definition of "saturated soil conditions</u>	<u>ASP</u>

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			<u>adopted as part of T or I rules but acknowledged a relationship. The BOF adopted a revised definition as part of its ASP, 2009 rules. The adopted definition relies on the inclusion of specific rule subsection language regarding the prevention of deleterious water quality impacts. The BOF should evaluate other standard FPRs that address saturated soil conditions to ensure that that the linkage avoiding WQ impacts is added due to the change in the definition.</u>	
895.1	895.1	Changes definition of "seasonal road"	Simplifies definition to state that use is generally discontinued in the winter period	Technical
895.1	895.1	Changes definition of "sidecast"	Makes non-substantive changes to definition	Technical
			<u>NOTE: the BOF adopted a new definition under the ASP 2009 rules that apply statewide and which does not include linkage between road condition and associated WQ impacts. The adopted definition relies on the inclusion of specific rule subsection language regarding the prevention of deleterious water quality impacts.</u>	ASP
			<u>Relates to potential exceptions to the 100 year flood flow crossing sizing standard. NOTE: concept was rejected as a categorical exception under the ASP rules and therefore has been deleted.</u>	ASP
895.1	895.1	Changes definition of "temporary road"	Simplifies definition to state that it will be deactivated or abandoned at the conclusion to timber operations	Technical
			<u>Term used in rule package; associated with term "stressing storm". NOTE: concept was rejected as a categorical exception under the ASP rules and therefore has been deleted.</u>	ASP
895.1	New	Creates definition of "through cut"	Provide definition for term used in rule package	Technical

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895.1	New	Creates definition of "through fill"	Provide definition for term used in rule package	Technical
<b>Amend 14 CCR § 914.8, 934.8, 954.8 Tractor Road Watercourse Crossing</b>				
914.8(d), 934.8(d), 954.8(d)	914.8(d), 934.8(d), 954.8(d)	Makes <u>tractor road watercourse crossing removal standards consistent with specified elements of logging road watercourse crossing removal standards.</u>	<u>Continuity with logging road watercourse crossing removal standards</u>	Technical
<b>Amend 14 CCR § 916.3, 936.3, 956.3. General Limitations Near Watercourses, Lakes, Marshes, Meadows and Other Wet Areas</b>				
916.3(c), 936.3(c), 956.3(c)	916.3(c), 936.3(c), 956.3(c)	Makes general limitations near watercourses and lakes specific to tractor roads and not logging roads and landings	General limitations near watercourses and lakes for logging road and landings is now covered in 923 [943, 963] <i>et seq.</i>	Technical
<b>Amend 14 CCR § 916.9, 936.9, 956.9. Protection and Restoration in Watersheds with Threatened or Impaired Values</b>				
916.9(f)(1)(A) and (B), 936.9(f)(1)(A) and (B), 956.9(f)(1)(A) and (B)	916.9(f)(1)-(3), 936.9(f)(1)-(3), 956.9(f)(1)-(3)	<u>The ASP rule, subsections (f)(1)(A)-(E) are divided into new subsections. Subsections (f)(1)(A) and (B) unrelated to logging road watercourse crossings are retained here. Subsections (f)(1)(B)-(D) related to logging road watercourse crossings are moved to 923.10 (i)(1)(A)-(C) [943, 963] <i>et seq.</i></u>	Allows all logging road watercourse crossing-related issues <u>from the ASP rule 916.9(f) to be addressed in 923 [943, 963] <i>et seq.</i>. Note: these three subsections are all under watercourse crossing planning but subsections (C) and (D) should be evaluated for possible placement under 923.11 Design and Implementation.</u>	ASP
916.9(k)(1), 923.6(i)(1)-(4), 943.6(i)(1)-(4), 956.9(k)(1)-(5)	916.9(k)(1)-(5), 936.9(k)(1)-(5), 956.9(k)(1)-(5)	<u>Subsection 916.9(k) is modified to only address year-round tractor road use limitations per the ASP rules; only revised (k)(1) is retained. The logging road, and landing limitations from the new (k)(1)-(4) are moved to 923.6(i)(1)(4). Subsection 916.9 (k)(5) moves to 923.7(l)(1).</u>	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i> . <u>Revised to be consistent with ASP rule 916.9 (k)</u>	ASP

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<del>923.7(l)(1)</del> <del>943.7(l)(1)</del> <del>963.7(l)(1)</del>				
<del>916.9(l)(1)-(3)</del> , <del>936.9(l)(1)-(3)</del> , <del>956.9(l)(1)-(3)</del> <del>923.6(i)(6)-(8)</del> <del>943.6(i)(6)-(8)</del> <del>963.6(i)(6)-(8)</del>	916.9(l), 936.9(l), 956.9(l)	Subsection 916.9(l) is modified to address only extended wet weather tractor operations conducted from October 15 to May 1 per the ASP rules; revised subsections (1)-(3) are retained. The logging road and landing limitations from the new (l)(1), (3) and (4) are moved to 923.6(i)(6)-(8).	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. <i>Revised to be consistent with ASP rule 916.9 (l).</i>	Technical
<del>916.9(n)(1)-(7)</del> , <del>936.9(n)(1)-(7)</del> , <del>956.9(n)(1)-(7)</del> <del>923.5(p)</del> , <del>943.5(p)</del> , <del>963.5(p)</del>  <del>923.14(b)</del> <del>943.14(b)</del> <del>963.14(b)</del>	<del>916.9(n)(1)-(7)</del> , <del>936.9(n)(1)-(7)</del> , <del>956.9(n)(1)-(7)</del>	The ASP rule subsection of revised 916.9(n) is retained to address stabilization on tractor roads and other areas unrelated to logging road, landing and logging road watercourse crossings. Logging road and landing stabilization requirements from 916.9(n) are incorporated into subsections 923.5 (p) and for logging road watercourse crossings into 923.14 (b).	Allows all logging road, landing and logging road watercourse crossing-related use to be addressed in 923 [943, 963] et seq.	ASP
<del>916.9(o)</del> <del>923.5(f)</del>	916.9(o)	Retains existing recently adopted ASP rule subsection 916.9(o) to address identification and feasible mitigation of sites, unrelated to roads, landings and logging road watercourse crossings (e.g., tractor roads, diversions), where erosion and sediment production is ongoing and poses significant risks to	Allows all logging road and landing and logging road watercourse crossing-related use to be addressed in 923 [943, 963] et seq.	ASP

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		water quality. Such "high risk sites" related to logging roads and landings are addressed under proposed 923.5(f).		
<a href="#">923.7(l)(2)</a> , <a href="#">943.7(l)(2)</a> , <a href="#">963.7(l)(2)</a>	<a href="#">916.9(p)</a> , <a href="#">936.9(p)</a> , <a href="#">956.9(p)</a>	Removes existing ASP subsection 916.9(p) requiring a three year prescribed maintenance period for logging roads and landings and moves it to 923.7(l)(2) [943.7(l)(2), 963.7(l)(2)]	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. An alternative to reshuffling all subsequent rule sections would be to duplicate what current 916.9 (i) states: "Section reserved for future use".	Technical
<a href="#">916.9(p)</a> , <a href="#">936.9(p)</a> , <a href="#">956.9(p)</a>	<a href="#">916.9(q)</a> , <a href="#">936.9(q)</a> , <a href="#">956.9(q)</a>	Removal of subsection (p) changes (q) to (p)	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. Maintains sequence of rule subsections	Clerical
<a href="#">916.9(r)(g)</a> , <a href="#">936.9(r)(g)</a> , <a href="#">956.9(r)(g)</a> OR <a href="#">923.7(m)</a> , <a href="#">943.7(m)</a> , <a href="#">963.7(m)</a> ;  <a href="#">923.6(i)(5)</a> , <a href="#">943.6(i)(5)</a> , <a href="#">963.6(i)(5)</a>	<a href="#">916.9(r)(1)-(3)</a> , <a href="#">936.9(r)(1)-(3)</a> , <a href="#">956.9(r)(1)-(3)</a> , <a href="#">923.6(i)(5)</a> , <a href="#">943.6(i)(5)</a> , <a href="#">963.6(i)(5)</a>	The ASP rules substantially revised 916.9(r). This subsection addresses water drafting for timber operations. Two options are provided: retaining the language under 916.9 or moving it to 923.7. Also, subsection, (r)(3)(B), has been moved to 923.6(i)(5) [943.6(i)(5), 963.6(i)(5)] under Erosion Control.	Maintains sequence of rule subsections and allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. NOTE: While the RRTF did not recommend moving water drafting under the subsection 923.7, "Maintenance and Monitoring" it may be logical to do so; an option is provided. Most water drafting is used for road maintenance purposes.	ASP
<a href="#">916.9(r)</a> , <a href="#">936.9(r)</a> , <a href="#">956.9(r)</a>	<a href="#">916.9(s)</a> , <a href="#">936.9(s)</a> , <a href="#">956.9(s)</a>	Removal of subsection (p) changes (s) to (r). This subsection addresses operational limitations adjacent to watercourses under an exemption notice. The ASP rules made non substantive changes (i.e., bulleted format, referencing specific DFG code section).	Maintains sequence of rule subsections	ASP
<a href="#">916.9(s)</a> , <a href="#">936.9(s)</a> , <a href="#">956.9(s)</a>	<a href="#">916.9(t)</a> , <a href="#">936.9(t)</a> , <a href="#">956.9(t)</a>	Removal of subsection (p) changes (t) to (s). This subsection addresses operational limitations adjacent to watercourses under an emergency notice. The ASP rules made non substantive changes (i.e., bulleted format, referencing specific DFG code section) and substantive changes (i.e., retention of trees within core zones).	Maintains sequence of rule subsections	ASP
	<a href="#">916.9(u)</a>	Removal of subsection (p) changes (u) to (t). This subsection	Maintains sequence of rule subsections	Clerical

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916.9(t), 936.9(t), 956.9(t)	936.9(u), 956.9(u)	addresses salvage logging limitations within a WLPZ.		
916.9(u), 936.9(u), 956.9(u) OR 916.9(v), 936.9(v), 956.9(v)	916.9(v), 936.9(v), 956.9(v)	Removal of subsection (p) changes (v) to (u) OR (v) could be retained with the addition of a placeholder subsection. This subsection addresses site-specific measures or nonstandard provisions. The ASP rules made extensive changes to this subsection.	Maintains sequence of rule subsections NOTE: This subsection has been recognized by all interested parties as "sub" (v); changing it to (u) may be met with opposition from a recognition standpoint. An alternative would be to duplicate what current 916.9 (i) states: "Section reserved for future use".	ASP
				ASP
916.9(v), 936.9(v), 956.9(v) OR 916.9(w), 936.9(w), 956.9(w) AND 923(e), 943.(e), 963(e)	916.9(w), 936.9(w), 956.9(w)	Removal of subsection (p) changes (w) to (v) OR retained as (w). The ASP rules made significant changes to this subsection. This subsection allows other permits, plans, statements or memorandums addressing anadromous salmonid protection to substitute for the requirements of 916.9 [936.9, 956.9]. This subsection would also be reiterated as a new subsection under the intent section of this article.	Would clarify upfront in this article that other permits may substitute. NOTE: these same provisions are contained in 923.9(f) [943.9, 963.9].	ASP
				ASP
<b>Amend 14 CCR § 918.3, 938.3, 958.3. Roads to be Kept Passable</b>				
923.6(d),	918.3,	Removes subsection 918.3 [938.3, 958.3] and moves it to	Allows all logging road- and landing-related use	Technical

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943.6(d), 963.6(d)	938.3, 958.3	923.6(d) [943.6(d), 963.6(d)], and changes period when applies to better match 918 [938, 958]	to be addressed in 923 [943, 963] <i>et seq.</i>	
<b>Amend Articles 11 and 12 Logging Roads and Landings</b>				
<b>923, 943, 963 Intent for Logging Roads, Landings, and Logging Road Watercourse Crossings</b>				
923(a)(1)-(3), 943(a)(1)-(3), 963(a)(1)-(3)	923, 943, 963 (pre-ample)	Takes first part of <u>the intent</u> pre-ample and puts it under one subsection	Better clarifies intent of logging road-related rules	<u>Clerical</u>
923(b)(1)-(9), 943(b)(1)-(9), 963(b)(1)-(9)	923, 943, 963 (pre-ample)	Adds public safety, significant archaeological and historical sites, air quality, visual resources, worker safety, fire hazard	Better clarifies intent of logging road-related rules. <u>Many of these elements are already being considered by review team agencies, plan submitters and RPFs. This formally recognizes their consideration given CEQA implications. Under (b) should the words "avoids or" be added in addition to minimizes? Should the word "significant" between the words potential and adverse for CEQA consistency?</u>	<u>Policy</u>
923(c), 943(c), 963(c)	<u>New</u>	Creates global subsection that allows exceptions to rules if explained and justified and accepted by the Director	Simplifies allowance of proposing an exception to the standard logging road-related rule. <u>Each exception must stand on its own site-specific merits rather than be measured against a default standard; Director must find the exception is in conformance with this article.</u>	<u>Policy</u>
923(d), 943(d)	923.3, 943.3,	Creates global subsection that allows exception if allowed by Fish and Game code and it must be made enforceable part of	<u>This change is consistent with the above approach addressing other exceptions. Moves</u>	<u>Technical</u>

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963(d)	963.3, <b>new</b>	plan	<del>the watercourse crossing exceptions to the standard logging road watercourse crossing-related rules to the intent of the article. Also, apparently some DFG 1600 agreements have not been incorporated into the plan and thus not enforceable under the THP.</del>	
923(e), 943(e), 963(e)	916.9(w), 936.9(w), 956.9(w), 923.9(f), 943.9(f), 963.9(f)	<del>Incorporates reference ASP rule requirements that allow other permits, plans, statements or memorandums addressing anadromous salmonid protection to substitute for the requirements of 916.9 [936.9, 956.9] and 923.9 [943.9, 963.9].</del>	Provides consistency ASP rules.	ASP
			<del>The ASP rules are permanent without a sunset date.</del>	ASP

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923.1, 943.1, 963.1 Planning for Logging Roads and Landings

923.1(a)(1), 943.1(a)(1), 963.1(a)(1)	923(b), 943(b), 963(b)	Requires a systematic road layout and minimizing total road mileage	No substantive change	Clerical
923.1(a)(2), 943.1(a)(2), 963.1(a)(2)	923(e), 943(e), 963(e)	Requires minimizing the number of watercourse crossings	No substantive change	Clerical
923.1(a)(3), 943.1(a)(3), 963.1(a)(3)	923(d), 943(d), 963(d)	Requires minimizing activities near watercourses, lakes, etc.	Requires minimizing rather than avoidance	Technical
923.1(a)(4), 943.1(a)(4), 963.1(a)(4)	923(d), 943(d), 963(d), 923(f), 943(f), 963(f)	Requires minimizing activities on steep slopes above watercourses and lakes	<del>Requires minimizing rather than avoidance;</del> description of location somewhat different	Technical
923.1(a)(5),	923(d),	Requires minimizing activities on unstable areas and connected	<del>Requires minimizing rather than avoidance.</del>	Policy/

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
943.1(a)(5), 963.1(a)(5)	943(d), 963(d) <b>New</b>	headwall swales	Adds connected headwall swales. <u>This is the first of several locations where these features must be considered/addressed.</u>	<u>Technical</u>
923.1(a)(6), 943.1(a)(6), 963.1(a)(6)	923(d), 943(d), 963(d)	Requires minimizing activities near nesting sites of threatened, endangered, and rare bird species	<u>Requires minimizing rather than avoidance.</u> Expands <u>species listings to include "rare" birds</u> that RPFs must consider when planning and locating roads. <u>NOTE: are there any State or Federally listed rare birds?</u>	<u>Technical</u>
923.1(a)(7), 943.1(a)(7), 963.1(a)(7)	<b>New</b>	Requires minimizing activities near significant populations of threatened, endangered, or rare plants	Expands <u>species listings to include plants</u> that RPFs must consider when planning and locating roads. <u>Added for CEQA compliance</u>	<u>Policy</u>
923.1(a)(8), 943.1(a)(8), 963.1(a)(8)	923(c), 943(c), 963(c), 923(g), 943(g), 963(g)	Requires minimizing ground disturbance, cuts and fills	Directly addresses need to keep ground disturbance to a minimum when planning and locating roads	<u>Technical</u>
923.1(a)(9), 943.1(a)(9), 963.1(a)(9)	<b>New</b>	Requires minimizing the potential to affect surface hydrology	Addresses need to consider water concentration, diversion, and drainage when planning and locating roads. <u>This requires evaluating hydrologic connectivity considerations at the planning stage.</u>	<u>Policy</u>
923.1(a)(10), 943.1(a)(10), 963.1(a)(10)	923.1(b), 943.1(b), 963.1(b)	Adds consideration of long-term road usage	<u>Addresses concern expressed that long-term use of roads was not being considered in conjunction with maintenance needs (e.g. ability to timely maintain culverts on a dead-end seasonal road spur where all timber had been clearcut).</u>	<u>Technical</u>
923.1(b)(1)-(3), 943.1(b)(1)-(3), 963.1(b)(1)-(3)	916.3(c)(1)-(3), 936.3(c)(1)-(3), 936.3(c)(1)-(3), 923(d),	Makes road and landing use, construction, and reconstruction in watercourses, WLPZ areas, etc. specific to logging roads and landings only and leaves tractor roads portion in 916.3 [936.3, 956.3], including exception consistent with in-lieu practice requirements	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>NOTE: requires modification of 916.3(c) [936, 956].</u>	<u>Technical</u>

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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	943(d), 963(d), 923.1(h), 943.1(h), 963.1(h)			
923.1(c), 943.1(c), 963.1(c)	923(d), 943(d), 963(d), 923.1(c), 943.1(c), 963.1(c)	Adds avoidance of connected headwall swales, in addition to unstable areas	Expands area that RPF must consider when planning and locating roads. <u>Includes specific standards for exceptions.</u>	Policy
923.1(d)(1)-(4), 943.1(d)(1)-(4), 963.1(d)(1)-(4)	916.4(a)(1), 936.4(a)(1), 956.4(a)(1)	Makes evaluation of sensitive conditions associated with watercourses and lakes specific to logging roads and landings	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>NOTE: conforming changes to existing 916.4(a)(1) needs to be made (i.e., removing logging road, landing and logging road watercourse crossing references).</u>	Policy
923.1(e), 943.1(e), 963.1(e)	923, 943, 963, New	Requires consideration of possible abandonment or deactivation when selecting alternatives	<u>An holistic view of transportation planning needs, often considered by RPFs, would be required including the feasibility of road abandonment or deactivation.</u>	Policy
923.1(f)(1)-(2), 943.1(f)(1)-(2), 963.1(f)(1)-(2)	923.9(a), 943.9(a), 963.9(a)	<u>Option 1: Retain existing ASP rule requiring consideration of long-term site occupancy of the transportation system on the watershed. ; Option 2: Requires identifying rationale for new roads and measures as needed to minimize impacts</u>	Provides consistency with threatened or impaired rules and allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>The RRTF believes this subsection should be re-visited.</u>	ASP/Policy
<b>923.2, 943.2, 963.2 Design and Implementation for Logging Roads and Landings</b>				
<u>NOTE: Specified requirements from planning are carried over to design, implementation and construction to provide consistency, continuity and enforceability (e.g. where existing rules specify a planning requirement the committee package may also specify design and construction requirements)</u>				
923.2(a)(1), 943.2(a)(1),	<b>New</b>	Requires avoidance or mitigation of impacts to public safety	<u>Public safety needs to be considered at the intent, design and construction phases of</u>	Policy

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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963.2(a)(1)			<del>road/landing requirements. Should the words "significant adverse" be added to clarify what potential impacts shall be addressed to comply with CEQA?</del>	
923.2(a)(2), 943.2(a)(2), 963.2(a)(2)	923.1(c), 943.1(c), 963.1(c)	Adds connected headwall swales <del>as features to avoid. (in addition to unstable areas) in the design and implementation of constructed/reconstructed logging roads and landings.</del>	<del>Directs the RPF to consider additional geomorphic features when designing and implementing logging road and landing construction and reconstruction</del>	Policy
923.2(a)(3), 943.2(a)(3), 963.2(a)(3)	<b>New</b>	Requires minimizing cuts and fills to the extent feasible	<del>Directs RPF to minimize excavation when designing and implementing logging road and landing construction and reconstruction</del>	Technical
923.2(a)(4), 943.2(a)(4), 963.2(a)(4)	923.9(b), 943.9(b), 963.9(b)	<del>Requires roads to be outloped where feasible and drained by waterbreaks or rolling dips in conformance with other rules.</del>	<del>Directs RPF to consider road surface geometry when designing and implementing logging road and landing construction and reconstruction</del>	Technical
923.2(a)(5), 943.2(a)(5), 963.2(a)(5)	923.1(f), 943.1(f), 963.1(f)	Adds avoidance of concentrating and diverting runoff and minimizing <del>potential soil erosion and sediment transport and to prevent adverse WQ impacts.</del>	<del>This performance standard directs the RPF to consider potential erosion and sediment delivery when designing and implementing logging road and landing construction and reconstruction</del>	Policy
923.2(a)(6), 943.2(a)(6), 963.2(a)(6)	923.1(d), 943.1(d), 963.1(d)	Changes to slopes that drain <del>toward</del> the zoned watercourse or lake, removes endhauling provision (see 923.2(b) below and subsections related to construction), and removes maintenance provisions for drainage structures and facilities provided that such maintenance is feasible and necessary to keep roadbeds and fills stable (see 923.7 requirements)	Clarifies what the RPF must consider when designing and implementing logging road and landing construction and reconstruction	Technical
923.2(b), 943.2(b), 963.2(b)	923.1(d), 943.1(d), 963.1(d)	Requires <del>removal (e. g. endhauling) of spoils if it will adversely effect the beneficial uses of water. Addresses endhauling deleted from previous subsection.</del>	<del>Broadens the Director's discretion to require removal of spoils.</del>	Policy
923.2(c), 943.2(c), 963.2(c)	<b>New</b>	Prohibits excavated material from being placed at sites where it could negatively effect the beneficial uses of water	<del>A performance standard requiring that transporting spoils material to problematic sites (from a WQ perspective) be avoided.</del>	Policy
923.2(d)(1), 943.2(d)(1), 963.2(d)(1)	923.1(g)(1), 943.1(g)(1), 963.1(g)(1)	Requires logging road to be single lane compatible with equipment used and to have adequate turn outs consistent with federal contracts, removes requirement for stating road width	<del>A single combined rule (standard and ASP) regarding road width was made for statewide consistency. Stating the road width was deemed</del>	Technical/ ASP

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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	923.9(b), 943.9(b), 963.9(b)	from threatened or impaired rule.	<del>unnecessary given the "single-lane compatible with the largest type of equipment" requirement.</del> Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	
923.2(d)(2), 943.2(d)(2), 963.2(d)(2)	923.1(e), 943.1(e), 963.1(e)	Avoid road grades in excess of 20% or grades in excess of 15% that extend over 500 continuous feet; <del>makes existing</del> Northern and Southern District-specific exception <u>applicable statewide</u>	<del>The issue of no feasible access and desire to reduce soil disturbance are conditions/rationale applicable statewide.</del>	Technical
923.2(e), 943.2(e), 943.2(e)	923.5(d), 943.5(d), 963.5(d)	Removes reference to minimum in width, size, and number and adds requirement of avoidance on slopes >40% where landing is >1/4 acre	<del>No significant problems noted with respect to the width/size/number of landings. Landing construction on steeper slopes is problematic due to expertise and compaction techniques required to avoid potential fill instability and failure.</del>	Technical/Policy
923.2(f), 943.2(f), 963.2(f)	916.9(o), 936.9(o), 956.9(o)	<del>The ASP rule requirements of 916.9(o) that modified the previous subsection (o) are incorporated. This subsection requires the identification and feasible mitigation of sites, related to roads, landings and logging road watercourse crossings where erosion and sediment production is ongoing and poses significant risks to water quality.</del>	<u>Consistent with ASP rule.</u> Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	ASP
<b>923.3, 943.3, 963.3 Mapping and Identification for Logging Roads and Landings</b>				
923.3(a), 943.3(a), 963.3(a)	<b>New</b>	Refers plan preparer to pertinent sections of 1034(x), 1090.5(w), 1090.5(hh), 1090.7(n), and 1092.09(l) for logging road- and landing-related mapping requirements	Maintains logging road- and landing-related mapping requirements in various contents of plan sections of rules	
923.3(b), 943.3(b), 963.3(b)	<b>New</b>	Refers plan preparer to pertinent sections of 1034(ii), 1034(ji), and 1090.5(gg) for logging road- and landing-related disclosure and description requirements	Maintains in, or adds to, various contents of plan sections of rules logging road- and landing-related disclosure and description requirements	
923.3(c), 943.3(c), 963.3(c)	<b>New</b>	Refers plan preparer to 1034(hh) for logging road- and landing-related identification requirements	Adds logging road- and landing-related identification requirements to contents of plan sections of rules	
923.3(d),	<b>New</b>	Requires identification of constructed and reconstructed logging	Adds logging road- and landing-related	

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943.3(d), 963.3(d)		roads and landings across slopes greater than 65 percent for 100 lineal feet or more and across slopes greater than 50 percent for 100 lineal feet or more within 100 feet of the boundary of a WLPZ that drains toward the zoned watercourse or lake.	identification requirements to rules	
923.3(e), 943.3(e), 963.3(e)	923.1(i), 943.1(i), 963.1(i)	Requires flagging or identifying constructed and reconstructed roads either before submission of a plan or substantial deviation or prior to the pre-harvest inspection, if necessary, or prior to logging road construction or reconstruction. Removes Northern and Southern Forest District exception for short temporary roads	Ensures road identification on ground prior to construction for evaluation and identification	
<b>923.4, 943.4, 963.4 Construction and Reconstruction for Logging Roads and Landings</b>				
923.4, 943.4, 963.4	923.2(a), 943.2(a), 963.2(a)	Requires notification of change in designation of logging road classification after the plan is approved per 1039, 1040, 1090.14, 1092.26 or 1092.27, as appropriate.	Makes notification of Director necessary via the various amendment processes	<u>Clerical</u>
923.4(a), 943.4(a), 963.4(a)	<b>New</b>	Requires logging roads and landings not to be constructed or reconstructed where such operations pose a significant risk to public safety.	<u>Public safety needs to be considered at the intent, design and construction phases of road/landing requirements.</u>	<u>Policy</u>
923.4(b), 943.4(b), 963.4(b)	916.3(c), 936.3(c), 956.3(c), 923.2(v), 943.2(v), 963.2(v)	Requires logging roads or landings not to be constructed or reconstructed in watercourses, lakes, the WLPZ, marshes, wet meadows, or other wet areas, except for logging road watercourse crossings or as specified in the plan	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.4(c), 943.4(c), 963.4(c)	<b>New</b>	Requires logging roads and landings not to be constructed or reconstructed across unstable areas or connected headwall swales	<u>Connected headwall swales need to be considered at the planning, design and construction phases of road/landing requirements</u>	<u>Policy</u>
923.4(d), 943.4(d), 963.4(d)	923.2(k), 943.2(k), 963.2(k)	Requires logging roads and landings not to be constructed with overhanging banks	No change	

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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923.4(e), 943.4(e), 963.4(e)	923.2(l), 943.2(l), 963.2(l)	Requires felling of trees with over 12 inches dbh with more than 25 percent of the root surface exposed by logging road or landing construction concurrently with the timber operations	No change	
923.4(f), 943.4(f), 963.4(f)	923.2(f), 943.2(f), 963.2(f), 923.5(g), 943.5(g), 963.5(g)	Requires removing the organic layer of the soil prior to fill placement on slopes greater than 40 percent	Removes provision of substantially disturbing organic material and increase slope requirement from 35% to 40%. <u>Failure to remove organics during construction is more problematic on slightly steeper slopes based on experience</u>	Technical
923.4(g), 943.4(g), 963.4(g)	923.2(j), 943.2(j), 963.2(j), 923.5(c), 943.5(c), 963.5(c)	Prohibits burial of waste organic material and allows use of wood debris or cull logs and chunks to restrain excavated soil from moving downslope	No change	
923.4(h), 943.4(h), 963.4(h)	923.2(u), 943.2(u), 963.2(u)	Prohibits bunching of slash and other debris against residual trees, which are required for silvicultural or wildlife purposes, nor placing it in locations where it could be discharged into Class I or II watercourses or lakes	No change	
923.4(i), 943.4(i), 963.4(i)	<b>New</b>	Limits fill slopes to no greater than 65 percent where fills will exceed three feet in vertical thickness	<u>As fill depths increase the stability of fill slopes become problematic at greater than 65% (approximately the angle of repose)</u>	Technical
923.4(j), 943.4(j), 963.4(j)	923.2(r), 943.2(r), 963.2(r), 923.5(e), 943.5(e), 963.5(e)	Prohibits logging road and landing construction and reconstruction under saturated soil conditions, except on isolated wet spots provided minimization measures are taken	<u>Modifies language related to water quality protection by inserting a common performance standard that is utilized throughout the package</u>	Policy
923.4(k), 943.4(k), 963.4(k)	916.9(l), 936.9(l), 956.9(l), <b>New</b>	Prohibition of logging road and landing construction and reconstruction during the winter period unless incorporation of a complete winter period operating plan that specifically addresses such logging road or landing construction or reconstruction.	<u>Increased risks to the beneficial uses of water statewide create the necessity to directly address logging road and landing construction and reconstruction during a period of likely wet weather operations</u>	Policy

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923.4(l), 943.4(l), 963.4(l)	923.2(c), 943.2(c), 963.2(c), 923.5(b), 943.5(b), 963.5(b)	Requires fills greater than four feet in vertical height at the outside shoulder of the logging road or landing to be constructed on a bench that is excavated at the proposed toe of the fill on slopes greater than 50 percent for greater than 100 lineal feet and adds requirement that bench be wide enough to compact the first lift and be compacted in one-foot lifts or retained by an engineered structure	<u>Roads on steeper slopes have higher potential failure risks if fill is not adequately compacted in lifts.</u> ▼	Technical
923.4(m), 943.4(m), 963.4(m)	<b>New</b>	Prohibits construction and reconstruction across 100 feet or more of lineal distance on any slope greater than 65 percent or within 100 feet of the boundary of a WLPZ on slopes greater than 50 percent that drain toward the zoned watercourse or lake <u>unless specific construction techniques or measures are described in the plan</u>	<u>Requirements are consistent with design and implementation subsections.</u> Expands area of prohibition when constructing and reconstructing logging roads and landings. <u>Road construction across slopes with specified conditions pose more risk of failure and therefore specifying proposed techniques or measures in the plan is warranted</u>	Technical
923.4(n), 943.4(n), 963.4(n)	923.2(b), 943.2(b), 963.2(b), 923.5(a), 943.5(a), 963.5(a)	Makes construction of fills on slopes greater than 65 percent prohibited and removes stipulation that section of road must be 100 feet in length	<u>In general, the construction of fill on very steep slopes cannot be stabilized without engineered measures such as retaining walls.</u> ▼	Technical
923.4(o), 943.4(o), 963.4(o)	923.2(b), 943.2(b), 963.2(b), 923.5(a), 943.5(a), 963.5(a)	Requires sidecast from logging road and landing construction to be minimized to the degree feasible on slopes greater than 65%	<u>Excess material (i.e., spoils, sidecast) on very steep slopes is not stable and thus subject to failure and undesirable downslope movement. Rule acknowledges that some minimal sidecast may occur even under full bench excavator construction</u>	Technical
923.4(p), 943.4(p), 963.4(p)	923.2(g), 943.2(g), 963.2(g)	Requires deposit and stabilization of excess material to prevent impacts to water quality and adds avoiding potential adverse impacts to public safety	<u>Excess material (e.g. via endhauling during full bench construction) that is transported needs to be placed at spoils sites and stabilized to avoid adverse impacts. It is not logical to remove excess material from one high risk site and haul it to another high risk site</u>	Technical
923.4(q),	1035.3(b),	Requires the LTO to inform the RPF or plan submitter of	Ensures that unanticipated conditions <u>that may</u>	Policy

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943.4(q), 963.4(q)	New	unanticipated conditions that could result in a significant adverse impact on the environment or to public safety, and, if necessary, the responsible RPF or plan submitter to submit a deviation to the plan describing the unanticipated conditions and proposing appropriate actions	be encountered during construction (e.g. excess groundwater on steep slopes above a public road) that could result in significant adverse negative impacts to public safety or the environment are communicated to the appropriate parties and that appropriate actions are amended into the plan to address such impacts	
923.4(r), 943.4(r), 963.4(r)	923.9(c), 943.9(c), 963.9(c)	Incorporates ASP rule (923.9(c). This rule specifies requirements for logging road construction on slopes >50%	Provides some added flexibility concerning construction methods given the presence of specified site-specific conditions or features.	ASP
923.4(s), 943.4(s), 963.4(s)	916.9(l)(1), 936.9(l)(1), 956.9(l)(1)	Incorporates ASP rule 916.9(l)(1) for construction and reconstruction of logging roads during the Extended Wet Weather Period from October 15 to May 1.	RRTF package has been revised to include the required winter period operating plan for specified operations conducted from Oct. 15 to May 1 as a separate rule subsection.	ASP
<b>923.5, 943.5, 963.5 Erosion Control for Logging Roads and Landings</b>				
923.5(a), 943.5(a), 963.5(a)	New 923.2(p), 943.2(p), 963.2(p)	Requires adequate drainage through the use of surface geometry configurations in combination with the installation of drainage facilities or ditch drains.	Describes how adequate drainage on logging roads and landings will be achieved. Performance based requirement.	Technical
923.5(b), 943.5(b), 963.5(b)	923.2(h), 943.2(h), 963.2(h), 923.5(f)(3), 943.5(f)(3), 963.5(f)(3)	Requires installation of drainage facilities or ditch drains in sufficient number only to prevent soil erosion and degradation of water quality and makes requirement more general in manner	The term drainage structure was too limiting and did not address waterbreaks and rolling dips. The term was replaced with drainage facilities and ditch drains. Requires a sufficient number of drainage facilities/ditch drains be installed on logging roads and landings in order to meet the specified performance standards (minimizing/preventing undesirable water quality impacts)	Tech Techni cal
923.5(c),	923.2(h),	Requires ditch drains to be adequately sized to transmit runoff,	Establishes performance standards specifically	Technical

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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943.5(c), 963.5(c)	943.2(h), 963.2(h)	minimize erosion of logging road and landing surfaces, avoid discharge onto fill, and minimize potential adverse impacts to slope stability	for ditch drains rather than all drainage facilities and structures. <u>Drainage facilities and other drainage structures have separate standards.</u>	
943.5(d), 963.5(d), 923.5(d)	914.6(f), 934.6(f), 954.6(f), new	Requires location of waterbreaks and rolling dips to be located to avoid collecting and discharging concentrated runoff onto fills, erodible soils, unstable areas, and connected headwall swales	Creates specific rule subsection to address location of such drainage facilities	Technical
923.5(e), 943.5(e), 963.5(e)	914.6(g), 934.6(g), 954.6(g)	Requires waterbreaks to be cut six inches into the roadbed and have a continuous firm embankment of at least six inches in height immediately adjacent to the lower edge of the waterbreak cut	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. <u>rather than by rule referencing. Clarifies when the standard is applicable and what the standard is. Makes the Southern Subdistrict of the Coast Forest District requirement allowing use of hand waterbreak construction applicable statewide.</u>	Policy
923.5(f), 943.5(f), 963.5(f)	914.6(c), (934.6(c), 954.6(c)	Requires distances between waterbreaks to conform to the standards specified in 14 CCR § 914.6(c) [(934.6(c), 954.6(c)] (Option 1 <u>references</u> the applicable rule section and Option 2 <u>repeats</u> the <u>the waterbreak spacing table from Harvesting and Erosion Control article</u> ).	<u>Both options allow</u> all logging road- and landing-related use to be addressed in 923 [943, 963] et seq. <u>Need to consider retaining the following existing sentence that may have been inadvertently deleted "The appropriate waterbreak spacing shall be based upon the erosion hazard rating and logging road gradient."</u>	Clerical
923.5(g), 943.5(g), 963.5(g)	<b>New</b>	Describes standards to use where outsloping and rolling dips are used to control surface runoff	<u>Establishes performance standards applicable to</u> rolling dips and outsloping	Technical
923.5(h), 943.5(h), 963.5(h)	923.2(o), 943.2(o), 963.2(o), 923.5(f)(3), 943.5(f)(3), 963.5(f)(3)	Requires drainage facilities and ditch drains to discharge into vegetation or rock or to have energy dissipating material installed below the drainage facility or drainage structure outlet	Makes subsection specific to drainage facilities <u>and ditch drains; similar</u> drainage structure <u>requirements</u> are addressed under the logging road watercourse crossing <u>subsection [923.13 (e)]</u> .	Clerical
923.5(i), 943.5(i), 963.5(i)	923.2(q), 943.2(q), 963.2(q)	Requires logging roads and landings to have <u>adequate</u> drainage upon completion of use for the year or by October 15 whichever is earlier and allows drainage facilities and drainage structures to be constructed after October 15 provided they are installed prior	Makes the rule subsection apply to <u>both</u> drainage facilities and <u>structures</u> and makes exception apply to all drainage facilities ( <u>not just waterbreaks</u> ) and <u>drainage structures</u> .	Technical

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition <u>or</u> <u>Comment</u>	<u>Clerical,</u> <u>Technical,</u> <u>Policy or</u> <u>ASP Change?</u>
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		to the start of rain that generates overland flow		
923.5(j), 943.5(j), 963.5(j)	923.2(s), 943.2(s), 963.2(s), 923.5(h), 943.5(h), 963.5(h)	Requires drainage facilities and structures to be installed concurrent with construction or reconstruction from October 15 to May 1, removes the drained-by-October-15 <sup>th</sup> provision, and applies to reconstruction as well	Moves the drained-by-October-15 <sup>th</sup> provision to 14 CCR § 923.5(i), 943.5(i), 963.5(i) and makes subsection apply to logging road reconstruction as well	<u>Clerical</u>
923.5(k), (k)(1), 943.5(k), (k)(1), 963.5(k), (k)(1)	923.2(m), 943.2(m), 963.2(m), 923.5(f)(4), 943.5(f)(4), 963.5(f)(4)	<u>Requires that bare soil on logging road or landing cuts, fills, transported spoils, or sidecast created or exposed by timber operations be stabilized to achieve water quality performance standards.</u> Requires stabilization of sidecast or fill exceeding 20 feet in slope distance from the outside edge of a logging road or a landing that has access to a watercourse or lake	<u>Subsection 923.5(k) establishes a performance standard for soil stabilization measures. (k)(1) combines</u> two rule subsections into one to streamline rules	<u>Clerical</u>
923.5(k)(2), 943.5(k)(2), 963.5(k)(2)	916.7(b), 936.7(b), 956.7(b)	Requires stabilization of approaches to logging road watercourse crossings of Class I or II waters or Class III waters where an ELZ, EEZ, or a WLPZ is required	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.5(k)(3), 943.5(k)(3), 963.5(k)(3)	916.7, 936.7, 956.7	Requires stabilization of bare areas associated with logging road or landing cuts, fills, transported spoils, or sidecast exceeding 800 continuous square feet within a WLPZ	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.5(l), 943.5(l), 963.5(l)	916.7, 936.7, 956.7	Requires soil stabilization measures to be described in the plan, including removal, armoring with rip-rap, replanting, mulching, seeding, installing commercial erosion control devices to manufacturer's specifications, or chemical stabilizers	Makes rule subsection specific to describing soil stabilization measures and <u>provides additional examples of</u> what they may include, and allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.5(m), 943.5(m), 963.5(m)	916.7(c), 936.7(c), 956.7(c)	Requires additional stabilization measures where the natural ability of ground cover within a WLPZ is inadequate to protect the beneficial uses of water by minimizing soil erosion or by filtering sediment	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.5(n), 943.5(n), 963.5(n)	916.7, 936.7, 956.7	Requires soil stabilization treatments to be in place upon completion of operations for the year of use or prior to October 15, whichever comes first and areas created on or after October 15 to be treated within 10 days	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	<u>Clerical</u>
923.5(o),	923.5(f)(1),	Requires overhanging or unstable concentrations of slash,	<u>Specifies what disposal sites are not appropriate.</u>	<u>Technical</u>

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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943.5(o), 963.5(o)	943.5(f)(1), 963.5(f)(1)	woody debris or soil along the downslope edge or face of landings to be removed or stabilized when it is located on slopes greater than 65 percent or within 100 feet of the boundary of a WLPZ on slopes greater than 50 percent that drain toward the zoned watercourse or lake and removed materials cannot be placed at disposal sites that could discharge into a watercourse or lake		
923.5(p)(1), 943.5(p)(1), 963.5(p)(1)	923.9(b), 943.9(b), 963.9(b)	<u>Incorporates a portion ASP rule 923.9(b).</u> Requires outsloping where feasible and drainage with waterbreaks or rolling dips (where the road grade is inclined at seven (7) percent or less)	Makes rule subsection specific to outsloping and drainage on T or I watershed logging roads and landings. <u>Requires conformance with other applicable FPRs.</u>	Clerical
923.5(p)(2), 943.5(p)(2), 963.5(p)(2)	923.9(d), 943.9(d), 963.9(d)	<u>Incorporates ASP rule 923.9(d), modified to reference applicable RRTF rule subsection.</u> Requires all permanent and seasonal logging roads with a grade of 15 percent or greater that extend 500 continuous feet or more to have specific erosion control measures stated in the plan <u>in addition to requirements in other specified subsections.</u>	<u>NOTE: referenced rule citation changed to 923.2 [943.2, 963.2] (d)(2) not (e)(5).</u>	ASP/ Clerical
923.5(p)(3), 943.5(p)(3), 963.5(p)(3)	916.9(n), 936.9(n), 956.9(n)	<u>Incorporates ASP rule subsection 916.9(n) with modification to (n)(1) to function as the RRTF intended (i.e., these rules are in addition to specified standard FPR subsections) and deletes (n)(1)(B) related to tractor road approaches to watercourse crossings.</u> Requires stabilization of areas where timber operations have exposed more than 100 continuous square feet of bare soil and road cut banks and fills, straw mulch to be 90 percent, slash mulch coverage to be 90 percent, or 75 percent where the slash is packed into the ground surface through the use of a tractor or equivalent piece of heavy equipment, areas disturbed from May 1 to October 15 treated prior to the start of any rain that causes overland flow across or along the disturbed surface that could deliver sediment into a watercourse or lake in quantities deleterious to the beneficial uses of water, and areas disturbed from October 15 to May 1 treated prior to any day for which a chance of rain of 30 percent or greater is forecast by the National Weather Service or within 10 days of disturbance.	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <u>et seq.</u> <u>NOTE: the referenced rule subsections in RRTF 923.5(p)(3)(A) should be (k) through (o) not (i) through (p).</u>	ASP

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition <u>or</u> <u>Comment</u>	<u>Clerical,</u> <u>Technical,</u> <u>Policy</u> <u>or</u> <u>ASP</u> Change?
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		whichever is earlier. <u>Also requires additional protection measures when the natural ability of the ground cover is inadequate to protect water quality.</u>		
<b>923.6, 943.6, 963.6 Use for Logging Roads and Landings</b>				
923.6(a), 943.6(a), 963.6(a)	<b>New</b>	Requires logging roads and landings to be used in a manner that is consistent with their design and construction specifications	Ensures logging road and landing use is consistent with design and construction specifications	<u>Policy</u>
923.6(b), 943.6(b), 963.6(b)	923.6, 943.6, 963.6	Prohibits logging roads and landing use under conditions that could result in negative water quality impacts, except in certain emergencies	Makes rule subsection specific to use under conditions that could <u>(versus will: NOTE: this issue should be reconsidered)</u> lead to negative water quality impacts	<u>Policy</u>
923.6(c), 943.6(c), 963.6(c)	923.6, 943.6, 963.6	Prohibits logging road and landing use when equipment cannot operate under its own power due to wet conditions, allows use when logging roads and landings are firm and passable or during hard frozen conditions, and requires isolated wet spots to be rocked or otherwise treated	Makes rule subsection specific to use under wet conditions	<u>Clerical</u>
923.6(d), 943.6(d), 963.6(d)	918.3, 938.3, 958.3	Requires roads to be in passable condition when burning permits are required and changes period when this applies to better match 918 [938, 958]	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>Consistent with Section 918 (Fire Protection). Clarifies operative date. Eliminates using the completion of snag and slash disposal as controlling language regarding timing.</u>	<u>Policy</u>
923.6(e), 943.6(e), 963.6(e)	923.4(e), 943.4(e), 963.4(e)	Requires berms to be removed or breached before the beginning of the winter period, except for those needed for erosion control	No change	
923.6(f), 943.6(f), 963.6(f)	<u>923.4(b), (g)</u> <u>943.4(b), (g)</u> <u>963.4(b), (g)</u> 923.8(a),	Requires abandoned and deactivated logging roads to be blocked or closed to prevent use by normal vehicular traffic before the winter period	<u>Existing 923.4(b) requires temporary roads/landing be abandoned per existing 923.8 (blockage to standard production four wheel drive highway vehicles). Existing 923.4(g)</u>	<u>Technical</u>

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition <u>or</u> <u>Comment</u>	<u>Clerical, Technical, Policy or ASP</u> Change?
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	943.8(a), 963.8(a)		requires blockage to prevent use by normal vehicular traffic. Thus, existing rules are not consistent with regards to blockage. The proposed rule eliminates reference to temporary roads and replaces them with abandoned and deactivated roads which already have a blockage requirement under subsection 923.8(f). <b>Suggest retaining current rule (g) to address temporary roads and distinguishing them from deactivated or abandoned roads or require the same blockage standard.</b> See RRTF revised definition of temporary road. Revision is needed to eliminate conflict between between the two rule subsections (normal vehicular traffic versus standard production four wheel drive highway vehicles). If rule reverts back to temporary roads may want to consider adding timing of blockage to proposed 923.8(f).	
923.6(g), 943.6(g), 963.6(g)	923.1(j), 943.1(j), 963.1(j)	Prohibits logging road and landing use for hauling between October 15 and May 1 when saturated soil conditions exist	<b>NOTE: due to the change in the ASP definition of saturated soil conditions this rule subsection should be revised to re-establish the linkage between the road conditions and minimizing/preventing negative WQ impacts by modifying the end of the subsection: "... saturated soil conditions exist on the logging road and landing do not minimize soil erosion and sediment transport and prevent the discharge of sediment into watercourses and lakes in quantities deleterious to the beneficial uses of water."</b>	ASP
923.6(h), 943.6(h), 963.6(h)	923.2(t), 943.2(t), 963.2(t)	Requires logging roads and landings used for log hauling during the winter period to be surfaced with rock to a depth and quantity sufficient to maintain a stable road surface	No change	

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923.6(i)(1), 943.6(i)(1), 963.6(i)(1)	916.9(k)(1), 936.9(k)(1), 956.9(k)(1)	<del>Incorporates ASP subsection: 916.9(k)(1) that, specifies that logging roads and landings shall not to be used when visibly turbid water from the road or landing surface or inside ditch may reach a watercourse or lake. Addresses treatment of logging road approaches to watercourse crossings. Addresses the treatment of logging road surfaces adjacent to watercourses. Addresses rocking of approaches to water drafting sites. Specifies limitations on road use during the Extended Wet Weather Operating Period.</del>	Makes rule subsection specific to prevention of turbid water transport into watercourses. <del>Revise rule to incorporate new ASP rule 916.9(k)(1) requirements</del>	ASP
923.6(i)(2), 943.6(i)(2), 963.6(i)(2)	916.9(k)(2), 936.9(k)(2), 956.9(k)(2)	<del>Incorporates ASP subsection: (k)(2) that specifies log hauling only on stable operating surfaces and hydrologically disconnected roads.</del>	<del>NOTE: This subsection may be redundant to other performance based requirements in the RRTF package.</del>	ASP
923.6(i)(3), 943.6(i)(3), 963.6(i)(3)	<del>916.9(k)(3), 936.9(k)(3), 956.9(k)(3)</del>	<del>Incorporates ASP subsection (k)(3) that requires approaches to logging road watercourse crossings to be treated for erosion control concurrent with use for log hauling as needed.</del>	<del>Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.</del>	ASP
923.6(i)(4), 943.6(i)(4), 963.6(i)(4)	916.9(k)(4), 936.9(k)(4), 956.9(k)(4)	<del>Incorporates ASP subsection (k)(4) that requires all traveled surfaces of logging roads in a WLPZ or within any ELZ or EEZ designated for watercourse or lake protection to be treated for erosion control concurrent with use for log hauling as needed.</del>	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.	ASP
923.6(i)(5), 943.6(i)(5), 963.6(i)(5)	916.9(r)(3)(B), 936.9(r)(3)(B), 956.9(r)(3)(B)	<del>Incorporates ASP subsection 916.9(r)(3)(B) that requires approaches to water drafting locations within a WLPZ to be surfaced with rock or other suitable material to avoid generation of sediment prior to use</del>	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.	ASP
923.6(i)(6), 943.6(i)(6), 963.6(i)(6)	916.9(l)(1), 936.9(l)(1), 956.9(l)(1)	<del>Incorporates ASP subsection 916.9(l)(1) that requires incorporation of a complete winter period operating plan for logging road and landing use from October 15 to May 1</del>	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.	ASP
923.6(i)(7), 943.6(i)(7), 963.6(i)(7)	916.9(l)(3), 936.9(l)(3), 956.9(l)(3)	<del>Incorporates ASP subsection 916.9(l)(3) that that logging roads and landings shall not to be used when visibly turbid water from the road or landing surface or inside ditch may reach a watercourse or lake during the Extended Wet Weather Operating Period.</del>	<del>Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.</del>	ASP

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<u>923.6(i)(8),</u> <u>943.6(i)(8),</u> <u>963.6(i)(8)</u>	<u>916.9(l)(4),</u> <u>936.9(l)(4),</u> <u>956.9(l)(4)</u>	<u>Incorporates ASP subsection 916.9(l)(4) that that logging roads and landings shall not to be used when saturated soil conditions result in the visible increase in turbidity specified in (l)(3) above.</u>	<u>Allows all logging road- and landing-related use to be addressed in 923 [943, 963] et seq.</u>	<u>ASP</u>
<b>923.7, 943.7, 963.7 Maintenance and Monitoring for Logging Roads and Landings</b>				
923.7(a), 943.7(a), 963.7(a)	923.4, 943.4, 963.4	Requires logging road and landing surfaces to be maintained during timber operations and throughout the prescribed maintenance period	No substantive change	
923.7(b), 943.7(b), 963.7(b)	923.4, 943.4, 963.4	Requires logging roads that are used in connection with stocking activities to be maintained throughout such use, even if this extends beyond the prescribed maintenance period	No change	
923.7(c), 943.7(c), 963.7(c)	923.4(h), 943.4(h), 963.4(h), new	Requires maintenance treatments to be described and may include rocking, watering, paving, chemically treating, or installing commercial erosion control devices to manufacturer's specifications	Ensures that specific maintenance treatments will be described in the plan. <u>Need to consider whether this will simply add additional boiler-plate language covering the entire range of treatments based on multiple factors (e.g. road class, surfacing, location etc.).</u>	<u>Policy</u>
923.7(d), 943.7(d), 963.7(d)	923.4(j), 943.4(j), 963.4(j), 923.4(m), 943.4(m), 963.4(m)	Requires drainage facilities and drainage structures to be maintained to allow free flow of water and minimize soil erosion or to be repaired, replaced, or installed when maintenance is needed	Combines two former rule subsections to create one to address allowance of free flow of water or replacement when maintenance is needed	<u>Clerical</u>
923.7(e), 943.7(e), 963.7(e)	923.4(c), 943.4(c), 963.4(c)	Requires waterbreaks to be maintained as specified in 14 CCR § 914.6(h) [934.6(h), 954.6(h)]	No change. <u>NOTE: should 914.6(h) provisions for logging roads be stated here rather than referenced?</u>	
923.7(f), 943.7(f), 963.7(f)	923.4(i), 943.4(i), 963.4(i)	Requires soil stabilization treatments on logging road or landing cuts, fills, and sidecast to be maintained and removes requirement for installation, which is covered under erosion control	Creates unique standard for maintenance of soil stabilization treatments	<u>Clerical</u>
923.7(g),	923.4(k),	Requires actions to be taken to reduce failures of cuts, fills, or	No change	

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
943.7(g), 963.7(g)	943.4(k), 963.4(k)	sidecast to discharge sediment into watercourses and lakes		
923.7(h), 943.7(h), 963.7(h)	923.4(o), 943.4(o), 963.4(o)	<del>Specifies that</del> heavy equipment shall not to be used in a WLPZ for maintenance during wet weather, except in emergencies to protect the road, to reduce erosion, to protect water quality, or in response to public safety needs	<del>Expands</del> emergency situations where heavy equipment can be used in WLPZ areas	Policy
923.7(i), 943.7(i), 963.7(i)	New	Requires additional drainage facilities and structures to be installed where evidence of substantial soil erosion and discharge of sediment into watercourses or lakes in quantities deleterious to the beneficial uses of water is present along a logging road or landing <u>is identified during the conduct of timber operations.</u>	Ensures that sufficient number of drainage structures and facilities are <u>installed</u> to prevent erosion of sediment into watercourses and lakes.	Policy
923.7(j), 943.7(j), 963.7(j)	923.4(a), 943.4(a), 963.4(a)	Requires the prescribed maintenance period for erosion controls on permanent and seasonal logging roads and associated landings and drainage structures, which are not abandoned or deactivated in accordance with 14 CCR §§ 923.8 [943.8, 963.8] and 923.17 [943.17, 963.17], to be at least one year and allows an extension of up to three years	No change	
923.7(k), 943.7(k), 963.7(k)	New	Requires logging roads, landings, and associated drainage structures to be monitored to comply with 14 CCR § 1050	Ensures that erosion controls will be monitored	Policy
923.7(l)(1), 943.7(l)(1), 963.7(l)(1)	916.9(k)(5), 936.9(k)(5), 956.9(k)(5)	<del>Incorporates ASP subsection 916.9(k)(5) that</del> prohibits grading logging roads or landings to obtain a drier running surface more than one time before reincorporation of any resulting berms back into the road surface	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	ASP
923.7(l)(2), 943.7(l)(2), 963.7(l)(2)	916.9(p), 936.9(p), 956.9(p)	<del>Incorporates ASP subsection 916.9(p) that</del> requires the erosion control maintenance period on permanent and seasonal logging roads and associated landings that are not abandoned or deactivated in accordance with 14 CCR § 923.8 [943.8, 963.8] to be three years	Allows all logging road- and landing-related use to be addressed in 923 [943, 963] <i>et seq.</i>	ASP

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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923.8, 943.8, 963.8 Abandonment and Deactivation of Logging Roads and Landings

923.8, 943.8, 963.8	923.4(b), 943.4(b), 963.4(b), 923.4(g), 943.4(g), 963.4(g), new	Requires logging roads and landings that are proposed to be removed from the permanent road network, including historic roads and landings, to be abandoned, temporary logging roads and landings that are to remain a part of the permanent road network to be deactivated, other logging roads and landings proposed to be deactivated to comply with the standards specified in the rule section, and specific abandonment or deactivation measures to be described in the plan	Ensures that proper action, whether abandonment or deactivation, is taken and methods of abandonment or deactivation described in the plan. <u>NOTE: ongoing litigation regarding the Road Management Plan has been resolved. Therefore this subsection may rely upon on the definition of historic road in 895.1.</u>	Policy
923.8(a), 943.8(a), 963.8(a)	923.8, 943.8, 963.8	Requires all abandoned and deactivated logging roads to be left in a condition that provides for long-term functioning of erosion controls	Ensures maintenance-free erosion controls are installed	Clerical
923.8(b), 943.8(b), 963.8(b)	923.8(b), 943.8(b), 963.8(b)	Requires soil exposed by abandonment or deactivation operations on cuts, fills, and sidecast to be stabilized during and upon completion of abandonment or deactivation operations	<u>Ensures stabilization both during (as needed) and upon completion</u>	Policy
923.8(c), 943.8(c), 963.8(c)	923.8(c), 943.8(c), 963.8(c)	Requires logging road and landing surfaces to be graded or shaped to disperse runoff and adds "where needed"	Ensures grading and shaping only performed where necessary. <u>Depending on the situation, unnecessary soil disturbance can be avoided.</u>	Policy
923.8(d), 943.8(d), 963.8(d)	923.8(d), 943.8(d), 963.8(d)	Requires fills or sidecast to be pulled or shaped where site conditions indicate that there is a reasonable potential for perched materials to enter a watercourse or lake	Ensures such actions are taken when movement of perched materials into watercourses or lakes will compromise water quality	Clerical
923.8(e), 943.8(e), 963.8(e)	923.8(e), 943.8(e), 963.8(e)	Requires logging road watercourse crossings, other drainage structures, and associated fills to be removed and stabilized in accordance with 14 CCR § 923.17(a)-(c) [943.17(a)-(c), 963.17(a)-(c)] and, where it is not feasible to remove drainage structures and associated fills, to identify how erosion will be minimized and how sediment discharge will be prevented	Provides for other measures to be used to prevent erosion and discharge of sediment when drainage structures cannot be feasibly removed	Policy
923.8(f), 943.8(f), 963.8(f)	923.8(a), 943.8(a), 963.8(a)	Requires abandoned or deactivated logging roads to be blocked so that standard production four wheel-drive highway vehicles cannot pass the point of closure at the time of abandonment or	<u>Adds blockage design for abandoned roads. NOTE: may want to consider adding timing of blockage (i.e. before the winter period) although</u>	Technical

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		deactivation, and the blockage design to be described	<u>the conduct of abandonment in the winter period is a very rare occurrence.</u>	
<b>923.9, 943.9, 963.9 Licensed Timber Operator Responsibility for Logging Roads and Landings</b>				
923.9, 943.9, 963.9	923.7, 943.7, 963.7	Requires the licensed timber operator who is responsible for the implementation or execution of the plan to be responsible for the construction and maintenance of logging roads and landings, unless another licensed timber operator is employed for that purpose and amended into the plan as the responsible party.	Clarifies which LTO will be responsible for logging road and landing construction	<u>Clerical</u>
<b>923.10, 943.10, 963.10 Planning for Logging Road Watercourse Crossings</b>				
923.10(a), 943.10(a), 963.10(a)	<u>New</u>	Requires logging road watercourse crossings to be planned and located within the context of a systematic logging road layout pattern	Makes planning of watercourse crossings consistent with logging roads	<u>Clerical</u>
923.10(b), 943.10(b), 963.10(b)	<u>New</u>	Requires logging road watercourse crossings to be planned in a manner that is consistent with their proposed use	Makes planning of watercourse crossings consistent with logging roads	<u>Clerical</u>
923.10(c), 943.10(c), 963.10(c)	923. <del>(e)</del> , 943. <del>(e)</del> , 963. <del>(e)</del>	Requires the number of logging road watercourse crossings to be kept to a feasible minimum	No change	
923.10(d), 943.10(d), 963.10(d)	<u>New</u>	Requires existing logging road watercourse crossing locations to be utilized where feasible and appropriate	Ensures consistency with proposed 14 CCR § 923.10(c), 943.10(c), 963.10(c) <u>and proposed 923.1(a), 943.1(a), 963.1(a)</u>	<u>Clerical</u>
923.10(e), 943.10(e), 963.10(e)	<u>New</u>	Requires public safety impacts of logging road watercourse crossings to be disclosed in the plan	Makes planning of watercourse crossings consistent with logging roads	<u>Policy</u>
923.10(f)(1)-(4), 943.10(f)	916.4(a)(1), 936.4(a)(1), 956.4(a)(1)	Makes evaluation of sensitive conditions associated with watercourses and lakes specific to logging road watercourse crossings	Allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>Adds additional examples of sensitive</u>	<u>Policy</u>

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(1)-(4), 963.10(f) (1)-(4)			<u>watercourse crossing conditions: an implementation schedule is required for feasible protection measures.</u>	
923.10(g), 943.10(g), 963.10(g)	New	Requires the RPF to disclose how diversion of stream overflow at logging road watercourse crossings will be prevented	Ensures specific information relative to prevention of <u>potential</u> overflows will be in the plan	Policy
923.10(h), 943.10(h), 963.10(h)	923.9(a), 943.9(a), 963.9(a)	<u>Requires additional measures for watercourse crossing located on remote road networks, where the landscape is unstable, where crossing fills are large or where crossings have had a high failure rate.</u>	<u>Optional requirement. Makes ASP requirement addressing "high-risk" crossings applicable statewide except do not have to specify the method of analysis and design for crossing protection in the plan.</u>	Policy
923.10(i), 943.10(i), 963.10(i)	<u>916.9(f)(1), 943.3(f)(1), 963.3(f)(1)</u>	<u>Incorporates ASP subsection 923.3(f)(1) that limits the requirements of this subsection to only those Class I watercourses where fish are always or seasonally present or where fish habitat is restorable. All permanent constructed or reconstructed logging road watercourse crossing structures installed on Class I watercourses, shall be planned to allow upstream and downstream passage of fish or listed aquatic species during any life stage and for the natural movement of bedload to form a continuous bed through the culvert</u>	Makes the requirement for Class I watercourse crossings specific to those that have fish present and not those classified based on the presence of domestic water supplies <u>during the planning stage.</u>	ASP
			<u>NOTE: subsections (f)(1)(B), (C) and (D) have been moved under 923.11(j) under design and implementation.</u>	ASP/ Clerical
923.10(j)(1), 943.10(j)(1), 963.10(j)(1)	923.9(e), 943.9(e), 963.9(e)	<u>Incorporates ASP subsection 923.9(e) that requires additional measures for watercourse crossing located on remote road networks, where the landscape is unstable, where crossing fills are large or where crossings have had a high failure rate.</u>	<u>NOTE: the option chosen (1, 2 or 3) depends on what decisions are made regarding statewide application and requiring the method of analysis in the plan.</u> Provides consistency with threatened or impaired rules and allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] <u>et seq.</u>	ASP

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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**923.11, 943.11, 953.11 Logging Road Watercourse Crossing Design and Implementation**

923.11(a), 943.11(a), 963.11(a)	923.1(b), 943.1(b), 963.1(b), <b>New</b>	Requires all constructed and reconstructed logging road watercourse crossings to be designed in accordance with the planned use of the associated logging road	Makes considering the planned use of the road in the design of logging road watercourse crossings	Clerical
923.11(b), 943.11(b), 963.11(b)	<b>New</b>	Requires all logging road watercourse crossings to be designed to avoid or mitigate potential significant adverse impacts to public safety	Makes considering public safety a factor in logging road watercourse crossing design	Policy
923.11(c), 943.11(c), 963.11(c)	923.3(e), 943.3(e), 963.3(e)	<del>Incorporates ASP subsection 923.3(e) that requires all constructed and reconstructed permanent logging road watercourse crossing structures to be designed to accommodate the estimated 100-year flood flow, including debris and sediment loads.</del>	<del>The adopted ASP rule package rejected the proposed categorical exception regarding culverts that had remained intact during stressing storms.</del>	ASP
923.11(d), 943.11(d), 963.11(d)	<b>New</b>	Requires new and replacement culverts used for logging road watercourse crossings to be designed to be installed at or slightly below the natural watercourse grade	Allows for bedload conveyance through the culvert <del>and to aid in preventing potential "piping" of flow underneath culvert.</del>	Technical
923.11(e), 943.11(e), 963.11(e)	923.3(a), 943.3(a), 963.3(a), <b>New</b>	<del>For new permanent culverts: requires the minimum diameter of the culvert and the method used to determine the culvert diameter to be specified in the plan.</del>	Ensures that <del>the method used to determine culvert size is specified in the plan to allow evaluation. Does not require the calculations.</del>	Technical
923.11(f), 943.11(f), 963.11(f)	923.2(h), 943.2(h), 963.2(h), new	Requires necessary protective structures associated with logging road watercourse crossings to be adequately sized to transmit runoff, minimize erosion of crossing fills, and prevent the discharge of sediment into watercourses and lakes	Ensures protective structures will protect the integrity of the associated logging road watercourse crossing	Technical
923.11(g), 943.11(g), 963.11(g)	<b>New</b>	Requires methods to mitigate or prevent diversion of stream overflow at logging road watercourse crossings to be stated in the plan	Ensures methods are described to allow for adequate evaluation	Technical
923.11(h), 943.11(h), 963.11(h)	<b>New</b>	Requires rock used to stabilize the outlet of fords to be adequately sized to resist mobilization, with the range of required rock dimensions described in the plan	Ensures that rock used at fords will be of sufficient size to prevent erosion, etc. and description allows evaluation	Technical

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923.11(i), 943.11(i), 963.11(i)	923.3(c), 943.3(c), 963.3(c)	Incorporates ASP subsection 923.3(c) that requires all drainage structures on watercourses that support fish allow for the unrestricted passage of all life stages.		ASP
923.11(j), 943.11(j), 963.11(j)	923.3(g), 943.3(g), 963.3(g)	Incorporates the requirements of 923.3(g) that requires permanent constructed and reconstructed logging road watercourse crossing structures installed within Class I watercourses, where fish are always or seasonally present or where fish habitat is restorable, to include the analysis and specifications that document conformance with 14 CCR § 923.10(i) [943.10(i), 963.10(i)] regarding passage of all life stages, and for the natural movement of bedload.	Ensures the design and methods are described to allow for adequate evaluation and makes it specific to fish-bearing Class I watercourses versus those classified because of the presence of domestic water supplies.	ASP
923.11(k), 943.11(k), 963.11(k)	916.9(f)(1)(B)-(D), 936.9(f)(1)(B)-(D), 956.9(f)(1)(B)-(D)	Incorporates ASP subsections (916.9(f)(1)(B)-(D) that requires all existing permanent logging road watercourse crossings, clear and enforceable specifications regarding how these crossings are to be modified, used and treated to achieve the standards of 923.11(j) [943.11(j), 963.11(j)] and 923.10(i) [943.10(i), 963.10(i)] regarding passage of all life stages of fish the and clear and enforceable specifications for construction and operation of any new crossing to prevent direct harm, habitat degradation, water velocity increase, hindrance of fish passage, or other potential impairment of the beneficial uses of water.	Ensures methods are described to allow for adequate evaluation and makes it specific to fish-bearing Class I watercourses versus those classified because of the presence of domestic water supplies. Requires existing and proposed specifications regarding Class I crossings be clear and enforceable.	ASP
<b>923.12, 943.12, 963.12 Logging Road Watercourse Crossing Mapping and Identification</b>				
923.12(a), 943.12(a), 963.12(a)	New	Refers plan preparer to appropriate section of 1034(x), 1090.5(w), 1090.7(n), and 1092.09(l) for logging road watercourse crossing-related mapping requirements	Maintains logging road watercourse crossing-related mapping requirements in various contents of plan sections of rules	
923.12(b), 943.12(b), 963.12(b)	New	Refers plan preparer to appropriate section of 1034 for logging road watercourse crossing-related disclosure and description requirements	Maintains logging road watercourse crossing-related mapping requirements in various contents of plan sections of rules	
923.12(c)	923.1(i)	Requires flagging or identifying constructed and reconstructed	Ensures logging road watercourse crossing	

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943.12(c), 963.12(c)	943.1(i), 963.1(i), new	logging road watercourse crossings either before submission of a plan or substantial deviation or prior to the pre-harvest inspection, if necessary, or prior to logging road construction or reconstruction	identification on ground prior to construction for evaluation and identification	
<b>923.13, 943.13, 963.13 Logging Road Watercourse Crossing Construction and Reconstruction</b>				
923.13(a), 943.13(a), 963.13(a)	New	Requires logging road watercourse crossing construction and reconstruction to comply with the design of required DF&G 1600 agreements	Ensures consistency with other regulatory requirements	Policy
923.13(b), 943.13(b), 963.13(b)	923.3(e), 943.3(e), 963.3(e), new	Requires all constructed and reconstructed permanent logging road watercourse crossings to accommodate the 100-year flood flow, including debris and sediment loads	<del>The adopted ASP rule package rejected the proposed categorical exception regarding culverts that had remained intact during stressing storms.</del>	ASP
923.13(c), 943.13(c), 963.13(c)	923.3(g), 943.3(g), 963.3(g), new	Requires all new and replacement culverts used for logging road watercourse crossings to be installed at or slightly below the natural watercourse grade, and for Class I watercourses, <b>where fish are always or seasonally present or where fish habitat is restorable</b> (fish versus domestic waters supply presence), requires new and replacement culverts to be installed below grade to allow upstream and downstream passage of fish or listed aquatic species during any life stage and natural movement of bedload <b>to form a continuous bed through the culvert.</b>	Ensures fish passage and conveyance of bedload <b>is accomplished at the construction stage.</b>	ASP
923.13(d), 943.13(d), 963.13(d)	New	Requires fills for constructed and reconstructed logging road watercourse crossings to be thoroughly compacted in approximately one-foot lifts during installation and the face of crossing fills to be no greater than 65 percent (1.5:1, horizontal to vertical)	Provides standard for fill placement at crossings	Technical
923.13(e), 943.13(e), 963.13(e)	923.2(o), 943.2(o), 963.2(o)	Requires logging road watercourse crossings not to discharge water onto erodible fill or other erodible material without the installation of energy dissipators and other necessary protective	No substantive change	Clerical

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923.13(f), 943.13(f), 963.13(f)	923.2(n), 943.2(n), 963.2(n)	Requires necessary protective structures to be concurrently installed where water is flowing at the time of logging road watercourse crossing construction or reconstruction and omits requirements that other permanent drainage structures be installed no later than October 15 and drainage structures be installed concurrently with the activity for construction and reconstruction of roads after October 15	Breaks rule section into more than one part to allow omitted portions to be covered in other subsections	Clerical
923.13(g), 943.13(g), 963.13(g)	New	Requires stored sediment to be removed or stabilized <u>to the extent feasible</u> , where a significant volume of sediment is stored upstream from a logging road watercourse crossing that is proposed to be reconstructed	Provides standard by which stored sediment can be removed or stabilized in cases of logging road watercourse crossing reconstruction	Technical
923.13(h), 943.13(h), 963.13(h)	923.2(h), 943.2(h), 963.2(h), 923.3(f), 943.3(f), 963.3(f)	Requires critical dips to be incorporated into the construction or reconstruction of logging road watercourse crossings utilizing culverts, except where diversion of overflow is prevented by other methods stated in the plan	Specifically states critical dips are necessary <u>unless overflow is prevented by other methods</u> and makes rule subsection specific to that requirement.	Technical
923.13(i), 943.13(i), 963.13(i)	New	Requires logging road watercourse crossings with sensitive conditions identified under 14 CCR § 923.10(f) [943.10(f), 963.10(f)] to be upgraded to address these conditions, replaced in accordance with 14 CCR § 923.11 [943.11, 963.11], or removed in accordance with 14 CCR § 923.17 [943.17, 963.17]	Ensures logging road watercourse crossings that are associated with sensitive watercourse conditions will be adequately addressed <u>as specified</u> .	Technical
923.13(j), 943.13(j), 963.13(j)	New	Requires logging road watercourse crossings not to be constructed or reconstructed under saturated soil conditions or when such activities could result in the discharge of sediment into watercourses or lakes in deleterious quantities	Makes construction and reconstruction of logging road watercourse crossings consistent with existing 923.2(r) [943.2(r), 963.2(r)], which prohibits logging road construction under saturated soil conditions. <u>NOTE: see proposed 923.4(j); consider whether subsection (j) could be modified to be more consistent with the referenced rule regarding minimizing erosion and preventing sediment discharge.</u>	Technical
923.13(k), 943.13(k),	1035.3(b), new	Requires the LTO to notify the RPF or plan submitter of conditions encountered during logging road watercourse	Ensures that unanticipated conditions that could result in negative impacts to public safety or the	Policy

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963.13(k)		crossing construction or reconstruction that differ from what was anticipated during the preparation and review of the plan and that will result in a significant adverse impact on the environment or to public safety and, if necessary, the responsible RPF or plan submitter to submit a proposed deviation to the plan describing the unanticipated conditions and proposing appropriate actions	environment are communicated to the appropriate parties and that appropriate actions are amended into the plan to mitigate such impacts	
923.13(l), 943.13(l), 963.13(l)	923.2(n), 943.2(n), 963.2(n), <u>new</u>	Requires logging road watercourse crossings to be installed no later than October 15, to be installed concurrent with the activity where logging road construction or reconstruction takes place from October 15 to November 15 or from April 1 to May 1, adds that they not be installed during the winter period, except as specified in an approved winter operating plan per 14 CCR § 914.7(a) [934.7(a), 954.7(a)], and omits necessary protective structures to be concurrently installed where water is flowing at the time of logging road watercourse crossing construction or reconstruction	Breaks rule section into more than one part to allow omitted portions to be covered in other subsections and adds the requirement that logging road watercourse crossings installed during the winter period must be addressed in a winter operating plan in order to ensure better protection of water quality and soil resources. <u>See proposed 923.13(e)</u>	<u>Clerical</u>
923.13(m), 943.13(m), 963.13(m)	916.9(l), 936.9(l), 956.9(l), <u>new</u>	<u>Incorporates ASP subsection 916.9(l)(1) that requires logging road watercourse crossings not to be constructed or reconstructed, except as specified in an approved winter operating plan, and adds that it must be in conformance with the implementation schedule required per 14 CCR § 923.10(f) [943.10(f), 963.10(f)] from October 15 to May 1,</u>	Ensures winter period logging road watercourse crossing construction and reconstruction will take into consideration identified sensitive conditions per 923.10(f) [943.10(f), 963.10(f)] and any implementation schedule developed as a result of the evaluation required by that subsection.	<u>ASP</u>
<b>923.14, 943.14, 963.14 Logging Road Watercourse Crossing Erosion Control</b>				
923.14(a)(1), 943.14(a)(1), 963.14(a)(1)	<u>New</u>	Requires adequate surface drainage at logging road watercourse crossings to be provided through the use of surface geometry configurations in combination with the installation of drainage facilities, ditch drains, or other necessary protective structures	Describes how <u>adequate</u> surface drainage is supposed to be provided. <u>Consistent with language for logging roads.</u>	<u>Technical</u>
923.14(a)(2)	<u>New</u>	Requires drainage facilities and ditch drains to be installed	Specifically requires sufficient drainage facilities	<u>Technical</u>

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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), 943.14(a)(2) , 963.14(a)(2) )		adjacent to logging road watercourse crossings to minimize soil erosion and sediment transport during and upon completion of timber operations and refers the plan preparer to 14 CCR §§ 923.5(d)-(j) [943.5(d)-(j), 963.5(d)-(j)] for standards related to waterbreak and rolling dip installation	be installed at logging road watercourse crossings to ensure adequate protection of soil resources and water quality. <u>Consistent with language for logging roads.</u>	
923.14(a)(3) , 943.14(a)(3) , 963.14(a)(3) )	New	Requires drainage facilities or ditch drains installed adjacent to logging road watercourse crossings to be located to avoid discharging concentrated runoff onto fills, erodible soils, unstable areas, and connected headwall swales	Specifically addresses drainage facilities installed adjacent to logging road watercourse crossings. <u>Consistent with language for logging roads.</u>	Technical
923.14(b)(1) , 943.14(b)(1) , 963.14(b)(1) )	923.2(m), 943.2(m), 963.2(m), new	Requires bare soil on fills or sidecast associated with logging road watercourse crossings that are created or exposed by timber operations to be stabilized, indicates erosion control measures for the traveled surface of roads and landing surfaces are specified in 14 CCR §§ 923.5 [943.5, 963.5] and 923.7 [943.7, 963.7], and describes sites to be stabilized, including sidecast or fill greater than 20 feet in slope distance from the outside edge of the road surface at the logging road watercourse crossing	Applies road construction stabilization requirement to the construction and reconstruction of logging road watercourse crossings to ensure adequate protection of water quality and soil resources. <u>Consistent with language for logging roads.</u>	Clerical
923.14(b)(2) , 943.14(b)(2) , 963.14(b)(2) )	916.7, 936.7, 956.7	Requires soil stabilization measures to be described in the plan, including removal, armoring with rip-rap, replanting, mulching, seeding, installing commercial erosion control devices to manufacturer's specifications, or chemical stabilizers	Makes rule subsection specific to describing soil stabilization measures and what they may include, and allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>Consistent with language for logging roads.</u>	Clerical
923.14(b)(3) , 943.14(b)(3) , 963.14(b)(3) )	916.7, 936.7, 956.7	Requires soil stabilization treatments to be in place upon completion of operations for the year of use or prior to October 15, whichever comes first and areas created on or after October 15 to be treated within 10 days	Allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] <i>et seq.</i> <u>Consistent with language for logging roads.</u>	Clerical
923.14(b)(4) (A)-(E)	916.9(n)(1)(B)-(C),	<u>Incorporates ASP subsection 916.9(n) with modification to (n)(1) to function as the RRTF intended (i.e., these rules are in addition</u>	Allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] <i>et</i>	ASP

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943.14(b)(4)(A)-(E), 963.14(b)(4)(A)-(E)	(3)(A), (3)(C), 936.9(n)(1)(B)-(C), (3)(A), (3)(C), 956.9(n)(1)(B)-(C), (3)(A), (3)(C)	<u>to specified standard FPR subsections) and deletes (n)(1)(B) related to tractor road approaches to watercourse crossings. and that requires stabilization of areas where timber operations have exposed more than 100 continuous square feet of bare soil, straw mulch to be 90 percent, slash mulch coverage to be 90 percent, or 75 percent where the slash is packed into the ground surface through the use of a tractor or equivalent piece of heavy equipment, areas disturbed from May 1 to October 15 to be treated prior to the start of any rain that causes overland flow across or along the disturbed surface that could deliver sediment into a watercourse or lake in quantities deleterious to the beneficial uses of water, and areas disturbed from October 15 to May 1 to be treated prior to any day for which a chance of rain of 30 percent or greater is forecast by the National Weather Service or within 10 days of disturbance, whichever is earlier. Also requires additional protection measures when the natural ability of the ground cover is inadequate to protect water quality.</u>	seq.	
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**923.15, 943.15, 963.15 Logging Road Watercourse Crossing Use**

923.15(a), 943.15(a), 963.15(a)	New	Requires logging road watercourse crossings to be used in a manner that is consistent with the design, construction, and maintenance of the logging road along which they have been constructed and refers applicable rule sections pertaining to logging road design, construction, and maintenance (923.2 [943.2, 963.2], 923.4 [943.4, 963.4], 923.6 [943.6, 963.6], and 923.7 [943.7, 963.7])	Ensures logging road watercourse crossing use is consistent with design, construction, and maintenance specifications for logging roads on which they are located	Policy
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**923.16, 943.16, 963.16 Logging Road Watercourse Crossing Maintenance and Monitoring**

923.16(a),	923.4,	Requires logging road watercourse crossings to be maintained	Applies specifically to logging road watercourse	Clerical
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943.16(a), 963.16(a)	943.4, 963.4, <b>new</b>	as designed, constructed, and reconstructed during timber operations and throughout the prescribed maintenance period	crossings	
923.16(b), 943.16(b), 963.16(b)	923.4, 943.4, 963.4, <b>new</b>	Requires logging road watercourse crossings that are used in connection with stocking activities to be maintained throughout such use, even if this extends beyond the prescribed maintenance period	Makes requirement specific to logging road watercourse crossings	Clerical
923.16(c), 943.16(c), 963.16(c)	923.4(i), 943.4(i), 963.4(i)	Requires soil stabilization treatments on logging road watercourse crossing fills to be maintained to minimize soil erosion and sediment transport	Applies specifically to logging road watercourse crossings and applies to maintenance of such stabilization measures	Clerical
923.16(d), 943.16(d), 963.16(d)	<b>New</b>	Requires additional measures to reduce sediment delivery from logging road watercourse crossings where evidence of substantial soil erosion and discharge of sediment into watercourses or lakes in quantities deleterious to the beneficial uses of water is present along a logging road or landing <b>and that is identified during the conduct of timber operations.</b>	Ensures that adequate measures to reduce sediment delivery from logging road watercourse crossings are <b>installed to minimize erosion and sediment transport and prevent sediment discharge</b> into watercourses and lakes <b>in adverse quantities.</b>	Policy
923.16(e), 943.16(e), 963.16(e)	<b>New</b>	Requires logging road watercourse crossings used for timber operations to be monitored, as needed, to comply with 14 CCR § 1050	Ensures that erosion controls will be monitored	Clerical
923.16(f), 943.16(f), 963.16(f)	923.4(d), 943.4(d), 963.4(d), 923.4(j), 943.4(j), 963.4(j), 923.4(l), 943.4(l), 963.4(l), 923.4(m), 943.4(m), 963.4(m), 923.4(n), 943.4(n), 963.4(n)	Requires drainage structures and associated necessary protective structures to be maintained, repaired, and replaced, as needed, to minimize crossing blockage and to provide for adequate capacity	Combines elements of both rule subsections in order to address maintenance, repair, and replacement of drainage structures	Clerical
923.16(g),	916.9(p),	<b>Incorporates ASP subsection 916.9(p) consistent with proposed</b>	Allows all logging road watercourse crossing-	ASP

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943.16(g), 963.16(g)	936.9(p), 956.9(p)	<u>definitions that</u> requires the erosion control maintenance period on logging road watercourse crossings that are not abandoned or deactivated in accordance with 14 CCR § 923.8 [943.8, 963.8] to be three years	related use to be addressed in 923 [943, 963] <i>et seq.</i>	
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**923.17, 943.17, 963.17 Logging Road Watercourse Crossing Removal**

923.17(a), 943.17(a), 963.17(a)	923.3(d)(1), 943.3(d)(1), 963.3(d)(1), <b>new</b>	Requires fills to be excavated to form a channel that is as close as feasible to the natural watercourse grade and orientation and that is wider than the average natural channel, and adds that this must be observed upstream and downstream of the logging road watercourse crossing to be removed	Clarifies that <u>the final width of the excavated channel is at least as wide as the observed channel widths</u> upstream and downstream of logging road watercourse crossing to be removed	Technical
923.17(b), 943.17(b), 963.17(b)	923.3(d)(2), 943.3(d)(2), 963.3(d)(2), <b>new</b>	Requires the excavated material and any resulting cut bank to be no greater than 65 percent (1.5:1, horizontal to vertical) from the outside edge of the constructed channel to prevent slumping and to minimize soil erosion and sediment transport	Specifies the steepness of excavated material ( <u>i.e. no steeper than the angle of repose</u> ) in order to prevent slumping of such material	Technical
923.17(c), 943.17(c), 963.17(c)	923.3(d)(2), 943.3(d)(2), 963.3(d)(2), <b>new</b>	Requires exposed soil associated with logging road watercourse crossing fill removal, including cut banks and excavated material, to be stabilized during and upon completion of removal operations <u>as needed</u> , by seeding, mulching, rock armoring, or other suitable treatment	Creates separate subsection to address stabilization of excavated material	Clerical
923.17(d), 943.17(d), 963.17(d)	<b>New</b>	Requires <u>appropriate drainage facilities</u> to be installed along removed logging road watercourse crossing approaches at locations that minimize the concentration of surface runoff and soil erosion	Ensures that adequate drainage facilities will be installed along approaches to drainage structures that have been removed ( <u>i.e. disconnect the crossing from the adjacent road approaches</u> )	Technical
923.17(e), 943.17(e), 963.17(e)	<u>923.8(e)</u> , <u>943.8(e)</u> , <u>963.8(e)</u>	Requires the plan to identify how soil erosion and sediment transport will be minimized and how the discharge of deleterious quantities of sediment into watercourses and lakes will be prevented where it is not feasible to remove a logging road watercourse crossing or its associated fill to the required standards	Creates specific rule subsection to address those cases where it may be infeasible to remove a logging road watercourse crossing and ensures that adequate stabilization measures will be incorporated into the plan	Technical

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923.17(f), 943.17(f), 963.17(f)	New	Requires stored sediment to be removed or stabilized where a significant volume of sediment is stored upstream from a logging road watercourse crossing that is proposed to be removed	Creates specific rule subsection to address those areas of stored sediment upstream of removed logging road watercourse crossings and ensures measures will be incorporated into the plan to remove or stabilize such areas. <u>Consistent with subsection 923.13(g) for constructed logging road watercourse crossings.</u>	Policy
923.17(g), 943.17(g), 963.17(g)	923.4(f), 943.4(f), 963.4(f), new	Requires all logging road watercourse crossings proposed for removal to be removed upon completion of use by the first day of the winter period or as specified in the applicable DFG 1600 agreement, whichever is earlier, or as otherwise specified in the plan	Creates rule subsection to address <u>the</u> timing of <u>proposed</u> logging road watercourse crossing <u>removal</u> .	Technical
923.17(h), 943.17(h), 963.17(h)	New	Requires logging road watercourse crossings to be removed concurrently where the removal of an individual logging road watercourse crossing eliminates access to other temporary crossings	Creates rule subsection to ensure the concurrent removal of any temporary logging road watercourse crossing when access to said crossing will be eliminated by the removal of another crossing	Technical
923.17(i), 943.17(i), 963.17(i)	923.4(f) [943.4(f), 963.4(f)], new	Requires temporary logging road watercourse crossings to be removed before the flow of water exceeds the capacity of the individual crossing if operations are conducted during the winter period	Creates rule subsection specific to removal of temporary logging road watercourse crossings prior to water flow that exceeds their capacity	Clerical

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition <u>or</u> <u>Comment</u>	<u>Clerical,</u> <u>Technical,</u> <u>Policy</u> <u>or</u> <u>ASP</u> Change?
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Amend 1034. Contents of Plan				
1034(x)	1034(x)	Requires specific information to be clearly shown on a map that is based upon a U. S. Geological Survey topographic quadrangle map, or equivalent, published at a scale of 1:24,000 or larger, other specific information on a topographic map at a scale of 1/2 inch equals 1 mile (1:126,720) or larger, indicates additional maps may be used to provide the information required in the other subsections, to show specific details, and to improve map clarity, notes color coding is not to be used, a legend is to be included indicating the meaning of the symbols used to depict operational features on maps, to see the district rules for the appropriate minimum mapping acreages, and omits the option to show appurtenant roads on a planimetric map	Maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(4)	1034(x)(4)	Requires showing the specified logging road- and landing-related features on a map of the appropriate type and scale as described in subsection (x) and omits showing the location of public roads and those private roads to be used for timber operations within the plan area, and private roads appurtenant to the timber operations where such roads are under the ownership or control of the timber owner, timberland owner, timber operator, or submitter of the plan, and classification of all proposed and existing logging roads as permanent, seasonal, or temporary roads	Uses paragraphs provided in the rule subsection to clarify, expand, and describe the logging road- and landing-related features to be shown on the map and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(4)(A)	1034(x)(4), 1034(ii), new	Requires showing the location of logging roads within the harvest area, which is a new definition in 895.1 and similar to plan area, and includes those logging roads located in watercourses, lakes, WLPZs, marshes, wet meadows, or other wet areas, those proposed for abandonment or deactivation, and those that	Maintains all plan-related mapping in the contents of plan portion of the rules	

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		provide access to rock pits and water drafting sites		
1034(x)(4)(B)	1034(x)(4), 1034(ii), new	Requires logging roads that will be used for log hauling that are under the ownership or control of the timber owner, timberland owner, timber operator, or plan submitter and that are between the harvest area and the first public road to be used for log hauling to be shown on a topographic map at a scale of 1/2 inch equals 1 mile (1:126,720) or larger, including those located in watercourses, lakes, WLPZs, marshes, wet meadows, or other wet areas, other than at logging road watercourse crossings, those proposed for abandonment or deactivation, those that provide access to rock pits and water drafting sites, and omits the use of the term, appurtenant, to describe logging roads	Maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)	1034(x)(4), new	Describes what must be mapped at the appropriate scale required under subsection (x), whichever is applicable, for all constructed and reconstructed logging roads and landings, unless otherwise described, and omits the requirement for showing the probable location of proposed and existing landings in the watercourse and lake protection zone, and landings outside the zone that are greater than 1/4 acre in size or whose construction involves substantial excavation	Moves mapping requirements for landings to another subsection, further clarifies what needs to be mapped pertaining to logging roads, and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(A)	1034(x)(17), new	Requires showing the location of logging road grades greater than 15 percent for over 200 continuous feet and adds logging road grades exceeding 20 percent	Clarifies and expands logging road-related features to be shown on the map and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(B)	1034(x)(6), new	Requires showing the location of road failures on existing logging roads to be reconstructed	No substantive change and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(C)	New	Requires showing the location of logging roads across and landings on unstable areas and connected headwall swales	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(D)	1034(x)(16), new	Requires showing the location of logging roads or landings within Class I, II, III, or IV watercourses or lakes, WLPZs, marshes, wet	Makes showing such features specific to logging roads and landings and maintains all plan-related	

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		meadows, or other wet areas other than at logging road watercourse crossings	mapping in the contents of plan portion of the rules	
1034(x)(5)(E)	New	Requires showing the location of logging roads and landings with insloping, inside ditch drainage, or crowning in excess of 300 lineal feet that drains into a classified watercourse or lake	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(F)	1034(x)(5), new	Requires showing the location of landings that require substantial excavation and landings in excess of one-quarter acre in size	Maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(G)	New	Requires showing the location of disposal sites for spoils generated during logging road or landing construction or reconstruction on slopes greater than 40 percent or on active unstable areas	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(H)	New	Requires showing the location of logging roads and landings across slopes greater than 65 percent for 100 lineal feet or more	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(I)	New	Requires showing the location of logging roads and landings across slopes greater than 50 percent for 100 lineal feet or more within 100 feet of the boundary of a WLPZ that drains toward the zoned watercourse or lake	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(J)	916.9(o), 936.9(o), 956.9(o), new	T or I watersheds: Requires showing the location of active erosion sites on logging roads and landings that will be treated	Ensures that such location are shown on the plan map to allow for adequate evaluation and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(K)	New	Requires showing the location of any other area(s) where non-standard practices on logging roads are proposed	Ensures locations of non-standard practices related to logging road- and landing-related features are shown on the plan maps and maintains all plan-related mapping in the	

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1034(x)(6)(A)	1034(x)(7), 1034(ii), new	Requires showing the location of existing logging road watercourse crossings within the harvest area, states it includes those crossings to be abandoned or deactivated, indicates that this requirement may be met by depicting the intersection of a logging road and a watercourse, and omits the exception of temporary crossings of Class III watercourses not flowing water at the during timber operations at that crossing	Maintains all plan-related mapping in the contents of plan portion of the rules, clarifies what logging road watercourse need to be shown, and clarifies how the logging road watercourse crossings may be depicted	
1034(x)(6)(B)	1034(x)(7), 1034(ii), new	Requires showing the location of constructed and reconstructed logging road watercourse crossings within the harvest area, states those include crossings to be abandoned or deactivated, and omits the exception of temporary crossings of Class III watercourses not flowing water at the during timber operations at that crossing	Maintains all plan-related mapping in the contents of plan portion of the rules and clarifies what logging road watercourse need to be shown	
1034(x)(6)(C)	1034(x)(4), 1034(x)(6), 1034(ii), new	Requires showing the location of the following logging road watercourse crossings, which are: (i) not within the harvest area but are under the ownership or control of the owner of the timberland where timber is proposed for harvest and (ii) between the harvest area and the first public road to be used for log hauling: (i) Existing logging road watercourse crossings of Class I and Class II waters that will be used for log hauling; (ii) Constructed and reconstructed logging road watercourse crossings that will be used for log hauling; and (iii) Existing logging road watercourse crossings to be abandoned or deactivated, indicates that this requirement may be met by depicting the intersection of a logging road and a watercourse, and omits road failures on existing roads to be reconstructed	This rule section is meant to clarify mapping of appurtenant roads without actually calling them as such, maintain all plan-related mapping in the contents of plan portion of the rules, and delete the portion pertaining to road failures, since it has moved to another rule subsection	
1034(x)(7)	1034(x)(7), new	Changes requirement of showing all road crossings to showing the location of all tractor road watercourse crossings of classified watercourses, changes portion excepting temporary crossings of Class III watercourses without flowing water during timber operations at that crossing to those that are dry at the time of use, and removes showing road failures on existing roads to be reconstructed	Makes this subsection specific to tractor roads, since logging road crossings are specifically addressed in their own rule subsections, clarifies when to show temporary crossings of Class III tractor roads, and maintains all plan-related mapping in the contents of plan portion of the rules	

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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1034(x)(9)	1034(x)(9)	Adds lakes to waters that require mapping	Makes mapping of lakes consistent with classifying them, providing protection, etc. and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(16)	1034(x)(16)	Requires showing the location of any in-lieu use of heavy equipment in the WLPZ, marshes, wet meadows, and other wet areas, changes showing the location of all roads to just the location of tractor roads in the WLPZ, marshes, wet meadows, and other wet areas, omits the provision that limits showing the location other than at crossings, and changes (15) to (14)	Makes this subsection specific to tractor roads, since logging road crossings are specifically addressed in their own rule subsections and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(x)(5)(A)	1034(x)(17)	Omits showing the location of any new or reconstructed road segment(s) that exceed an average 15% grade for over 200 feet	Moves addressing the location of this aspect of logging roads to 1034(x)(5)(A)	
1034(cc)	1034(cc)	Requires providing an explanation and justification for use of watercourses, marshes, wet meadows, and other wet areas as tractor roads and omits addressing landings and logging roads	Moves addressing the all things pertaining to logging roads and landings to appropriate section of 1034(x) and maintains all plan-related mapping in the contents of plan portion of the rules	
1034(ff)	1034(gg)	Requires provision of any other information required by the rules or the Act to be included in the plan, indicates the district rules provide for exceptions and alternatives to standard requirements that require inclusion of information in the THP, and omits the requirement for providing an explanation and justification for landings that exceed the maximum size specified in the rules	No change in content but moves information to a different rule subsection	
923.8, [943.8, 963.8]	1034(hh)	Moves requirement of describing the methods for road, watercourse crossing, and associated landing abandonment in the logging area to 923.8, [943.8, 963.8]	Moves addressing all things pertaining to logging road, landing and logging road watercourse crossing abandonment to 923.8, [943.8, 963.8]	
1034(x)(4)(A)-(B), 1034(x)(6)(A)-(C)	1034(ii)	Moves requirement for showing the locations and classifications of roads, watercourse crossings, and landings to be abandoned on a map complying with subsection 1034(x) to 1034(x)(4)(A)-(B), 1034(x)(6)(A)-(C)	Moves addressing all things pertaining to logging road-, landing- and logging road watercourse crossing-related mapping to the contents of plan section of the rules	

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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1034(gg)	1034(jj)	Requires a general description of physical conditions at the plan site, including general soils and topography information, vegetation and stand conditions, and watershed and stream conditions	No change in content but moves information to a different rule subsection	
1034(hh)	New	Either requires all logging roads and all landings requiring construction or reconstruction along non-public roads that are not within the harvest area nor under the ownership or control of the timberland owner whose land is being harvested to be identified or is not adopted	Addresses roads not under the ownership or control of the timberland owner where timber is being harvested and lists this requirement in the contents of plan portion of the rules	
1034(ii)(1)	New	Requires disclosure and description of either lineal distance of individual segments of logging road construction or total lineal distance of all logging road construction	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(2)	New	Requires disclosure and description of potential public safety concerns for all constructed and reconstructed logging roads and landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(3)	New	Requires disclosure and description of logging roads wider than single lane compatible with the largest type of equipment specified for use for all constructed and reconstructed logging roads	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(4)	New	Requires disclosure and description of areas with identified isolated outcrops of asbestos-bearing soil or parent material for all constructed and reconstructed logging roads and landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement	

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			in the contents of plan portion of the rules	
1034(ii)(5)	New	Requires disclosure and description of areas with potential mercury in soil, fills, or mine tailings for all constructed and reconstructed logging roads and landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(6)	New	Requires disclosure and description of areas where rules require a constructed bench to support fill on slopes greater than 50 percent for 100 lineal feet or more for all constructed and reconstructed logging roads and landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(7)	New	Requires disclosure and description of landings in excess of one-quarter acre on slopes exceeding 40 percent for all constructed and reconstructed landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(8)	New	Requires disclosure and description of constructed and reconstructed logging roads across or landings on unstable areas and connected headwall swales	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(9)	916.3(c), 936.3(c), 956.3(c), new	Requires disclosure and description of constructed and reconstructed logging roads or landings within Class I, II, III, or IV watercourses or lakes, WLPZs, marshes, wet meadows, or other wet areas other than at logging road watercourse crossings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(10)	New	Requires disclosure and description of constructed and reconstructed logging road and landing insloping, inside ditch drainage, or crowning in excess of 300 lineal feet that drains to a	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road	

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		classified watercourse or lake	and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(11)	New	Requires disclosure and description of road failures on existing logging roads to be reconstructed	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(12)	New	Requires disclosure and description of disposal sites for spoils generated during logging road or landing construction or reconstruction on slopes greater than 40 percent or on active unstable areas	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(13)	923.1(d), 943.1(d), 963.1(d), new	Requires disclosure and description of constructed and reconstructed logging roads and landings across slopes greater than 50 percent for 100 lineal feet or more within 100 feet of the boundary of a WLPZ that drains toward the zoned watercourse or lake	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan	
1034(ii)(14)	923.1(d), 943.1(d), 963.1(d), 923.2(b), 943.2(b), 963.2(b), new	Requires disclosure and description of constructed and reconstructed logging roads and landings across or landings on slopes greater than 65 percent for 100 lineal feet or more	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(15)	1034(hh)	Requires disclosure and description of constructed and reconstructed logging roads and landings to be abandoned or deactivated, including specific measures used to apply the general abandonment or deactivation requirements of 14 CCR § 923.8 [943.8, 963.8]	No substantive change in content but moves information to a different rule subsection	
1034(ii)(16)	New	Requires disclosure and description of constructed and reconstructed landings that require substantial excavation and	Ensures that information necessary for adequate evaluation of non-standard practices and other	

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition or Comment	Clerical, Technical, Policy or ASP Change?
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		landings in excess of one-quarter acre in size	issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(ii)(17)	New	Requires disclosure and description of other areas where non-standard practices are proposed on constructed and reconstructed logging roads or landings	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan	
1034(jj)(1)	916.9(o), 936.9(o), 956.9(o), new	T or I watersheds: Requires disclosure of active erosion sites on logging roads and landings that will be treated	Ensures that information necessary for adequate evaluation of practices affecting impacts related to logging road and landing construction and reconstruction will be included in the plan	
1034(jj)(2)	923.9(c)(1), 943.9(c)(1), 963.9(c)(1), new	T or I watersheds: Requires disclosure of proposed logging road construction on slopes greater than 50 percent	Ensures that information necessary for adequate evaluation of non-standard practices and other issues affecting impacts related to logging road and landing construction and reconstruction will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(II)(1)	New	Requires description of constructed or reconstructed logging road watercourse crossings within the harvest area, as needed	Ensures that information necessary for adequate evaluation of proposed practices will be included in the plan and lists this requirement in the contents of plan portion of the rules	
1034(II)(2)	New	Either requires disclosure and description of logging road watercourse crossings requiring construction or reconstruction along non-public roads, except temporary logging road watercourse crossings of Class III watercourses that are dry at the time of use, that are not within the harvest area nor under the ownership or control of the timberland owner where timber is proposed for harvest or is not adopted	Addresses roads not under the ownership or control of the timberland owner where timber is being harvested and lists this requirement in the contents of plan portion of the rules	
1034(II)(3)	New	Requires disclosure of the potential public safety impacts where logging roads watercourse crossing construction or reconstruction may affect public safety	Includes requirement of 14 CCR § 923.10(e) [943.10(e), 963.10(e)] in the contents of plan section of the rules	

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**Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09**

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1034(II)(4)	New	Requires disclosure of how diversions at logging road watercourse crossings will be avoided	Includes requirement of 14 CCR § 923.10(g) [943.10(g), 963.10(g)] in the contents of plan section of the rules	
1034(II)(5)	923.3(c), 943.3(c), 963.3(c)	Requires inclusion of the analyses and specifications that demonstrate all permanent constructed and reconstructed logging road watercourse crossing structures installed within Class I watercourses, classified based upon biological characteristics, will be designed to allow for upstream and downstream passage of fish or listed aquatic species during any life stage and for the natural movement of bedload	Includes requirement of 14 CCR § 923.11(i) [943.11(i), 963.11(i)] in the contents of plan section of the rules	
1034(II)(6)	923.3(a), 943.3(a), 963.3(a), new	Requires specifying the minimum diameter of the culvert and the method used to determine the culvert diameter where new culverts are proposed for permanent installation at a logging road watercourse crossing	Includes requirement of 14 CCR § 923.11(e) [943.11(e), 963.11(e)] in the contents of plan section of the rules	
1034(II)(7)	New	Requires stating the range of required rock dimensions for rock used in logging road watercourse crossings utilizing fords	Includes requirement of 14 CCR § 923.11(h) [943.11(h), 963.11(h)] in the contents of plan section of the rules	
1034(II)(8)	New	Requires identification of protection measures needed to reduce sediment delivery where evidence of substantial soil erosion and discharge of sediment into watercourses or lakes in quantities deleterious to the beneficial uses of water is present at a logging road watercourse crossing used for timber operations	Includes requirement of 14 CCR § 923.16(d) [943.16(d), 963.16(d)] in the contents of plan section of the rules	
1034(II)(9)	New	Requires identification of how soil erosion and sediment transport will be minimized and how the discharge of deleterious quantities of soil into watercourses or lakes will be prevented where it is not feasible to remove a logging road watercourse crossing or its associated fill to the standards contained in 14 CCR § 923.17 [943.17, 963.17]	Includes requirement of 14 CCR § 923.17(e) [943.17(e), 963.17(e)] in the contents of plan section of the rules	
1034(II)(10)	New	Requires disclosure and description of site conditions, and, to the extent feasible, specification of measures to be taken to address potential sediment mobilization where a significant volume of sediment is stored upstream from a logging road watercourse crossing that is proposed to be removed	Includes requirement of 14 CCR § 923.17(f) [943.17(f), 963.17(f)] in the contents of plan section of the rules	

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1034(II)(11) (A)	923.3(e), 943.3(e), 963.3(e), New	T or I watersheds: Requires stating how existing permanent culverts used for logging road watercourse crossings on Class I watercourses, classified based upon biological characteristics, are to be brought up to the standards of 14 CCR § 923.11(c) [943.11(c), 963.11(c)]	Includes requirement of 14 CCR § 923.11(i) [943.11(i), 963.11(i)] in the contents of plan section of the rules	
1034(II)(11) (B)	923.9(e), 943.9(e), 963.9(e)	T or I watersheds: Requires consideration of long-term site occupancy of road system on the watershed and may require the method of analysis and the design for crossing protection to be included in the plan	Includes requirement of 14 CCR § 923.10(j)(2) [943.10(j)(2), 963.10(j)(2)] in the contents of plan section of the rules	
<b>Amend 1051.1. Contents of Modified THP</b>				
1051.1	1051.1	Requires a plan submitted under section 14 CCR § 1051 to contain all the provisions of 14 CCR § 1034 except the following: (o), (x)(6), (x)(7), (z), (cc), (dd), (ee), (ff), and (ll)	Makes the contents of a modified timber harvesting plan consistent with the changes to 923 [943, 963] <i>et seq.</i> and 1034 and maintains all plan-related mapping in the contents of plan portion of the rules	
<b>Amend 1090.5 Contents of NTMP</b>				
1090.5(w)	1090.5(w)	Requires the map legend to indicate the meaning of the symbols used to depict operational features on maps	Clarifies that legend will describe the meaning of operational features on maps	
1090.5(w)(4)	1090.5(w)(4)	Requires the map to show the location of public roads within the "harvest" area rather than the "plan" area	Makes the use of "harvest" area (new definition in 895.1) rather than "plan" area, which is consistent with 923.3 [943.3, 963.3], 923.12 [943.12, 963.12], and 1034(x) mapping	
1090.5(gg)	1090.5(gg)	Makes all references to roads specific to "logging" roads, makes all references to watercourse crossings specific to "logging road" watercourse crossings, and adds the requirement of describing the methods for deactivating logging roads, landings, and logging road watercourse crossings	Makes the code section consistent with 923.3 [943.3, 963.3] in terms of logging roads, landings, and logging road watercourse crossings	
1090.5(hh)	1090.5(hh)	Makes all references to roads specific to "logging" roads and watercourse crossings specific to "logging road" watercourse	Makes the code section consistent with 923.3 [943.3, 963.3] in terms of logging roads,	

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		crossings in terms of what is to be shown on the plan map and provides correct code section reference	landings, and logging road watercourse crossings	
<b>Amend 1090.7 Notice of Timber Operations Content</b>				
1090.7(n)	1090.7(n)	Requires the map legend to indicate the meaning of the symbols used to depict operational features on maps	Clarifies that legend will describe the meaning of operational features on maps	
1090.7(n)(4)	1090.7(n)(4)	Adds "of" to rule section	Corrects sentence structure	
<b>Amend 1092.09 PTHP Contents</b>				
1092.09(l)	1092.09(l)	Requires specific information to be clearly shown on a map that is based upon a U. S. Geological Survey topographic quadrangle map, or equivalent, published at a scale of 1:24,000 or larger, other specific information on a topographic map at a scale of 1/2 inch equals 1 mile (1:126,720) or larger, indicates additional maps may be used to provide the information required in the other subsections, to show specific details, and to improve map clarity, notes color coding is not to be used, a legend is to be included indicating the meaning of the symbols used to depict operational features on maps, to see the district rules for the appropriate minimum mapping acreages, and omits the option to show appurtenant roads on a planimetric map	Maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(5)	1092.09(l)(5)	Requires showing the specified logging road- and landing-related features on a map of the appropriate type and scale as described in subsection (x) and omits showing the location of public roads and those private roads to be used for timber operations within the plan area, and private roads appurtenant to the timber operations where such roads are under the ownership or control of the timber owner, timberland owner, timber operator, or submitter of the plan, and classification of all proposed and existing logging roads as permanent, seasonal, or	Uses paragraphs contained in rule subsection to clarify, expand, and describe the logging road- and landing-related features to be shown on the map and maintains all plan-related mapping in the contents of plan portion of the rules	

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		temporary roads		
1092.09(I)(5)(A)	1092.09(I)(5), new	Requires showing the location of logging roads within the harvest area, which is a new definition in 895.1 and similar to plan area, and includes those logging roads located in watercourses, lakes, WLPZs, marshes, wet meadows, or other wet areas and those proposed for abandonment or deactivation	Maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(I)(5)(B)	1092.09(I)(5), new	Requires logging roads that will be used for log hauling that are under the ownership or control of the timber owner, timberland owner, timber operator, or plan submitter and that are between the harvest area and the first public road to be used for log hauling to be shown on a topographic map at a scale of 1/2 inch equals 1 mile (1:126,720) or larger, including those located in watercourses, lakes, WLPZs, marshes, wet meadows, or other wet areas, other than at logging road watercourse crossings, those proposed for abandonment or deactivation, those that provide access to rock pits and water drafting sites, and omits the use of the term, appurtenant	Maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(I)(6)	1092.09(I)(6), new	Describes what must be mapped at the appropriate scale required under subsection (x), whichever is applicable, for all constructed and reconstructed logging roads and landings, unless otherwise described, and omits the requirement for showing the probable location of proposed and existing landings in the watercourse and lake protection zone and landings outside the zone that are greater than 1/4 acre in size or whose construction involves substantial excavation	Moves mapping requirements for landings to another subsection, further clarifies what needs to be mapped pertaining to logging roads, and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(I)(6)(A)	New	Requires showing the location of logging road grades greater than 15 percent for over 200 continuous feet and adds logging road grades exceeding 20 percent	Clarifies and expands logging road-related features to be shown on the map and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(I)(6)(B)	1092.09(I)(7), new	Requires showing the location of road failures on existing logging roads to be reconstructed	No substantive change and maintains all plan-related mapping in the contents of plan portion of the rules	

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1092.09(l)(6)(C)	New	Requires showing the location of logging roads across and landings on unstable areas and connected headwall swales	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(D)	1092.09(l)(6), new	Requires showing the location of logging roads or landings within Class I, II, III, or IV watercourses or lakes, WLPZs, marshes, wet meadows, or other wet areas other than at logging road watercourse crossings	Makes showing such features specific to logging roads and landings and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(E)	New	Requires showing the location of logging roads and landings with insloping, inside ditch drainage, or crowning in excess of 300 lineal feet that drains into a classified watercourse or lake	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(F)	1092.09(l)(6), new	Requires showing the location of landings that require substantial excavation and landings in excess of one-quarter acre in size	Maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(G)	New	Requires showing the location of disposal sites for spoils generated during logging road or landing construction or reconstruction on slopes greater than 40 percent or on active unstable areas	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(H)	New	Requires showing the location of logging roads and landings across slopes greater than 65 percent for 100 lineal feet or more	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(I)	New	Requires showing the location of logging roads and landings across slopes greater than 50 percent for 100 lineal feet or more within 100 feet of the boundary of a WLPZ that drains toward the zoned watercourse or lake	Expands locations of non-standard practices related to logging road- and landing-related features to be shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(6)(J)	916.9(o),	T or I watersheds: Requires showing the location of active	Ensures that such locations are shown on the	

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6)(J)	936.9(o), 956.9(o), new	erosion sites on logging roads and landings that will be treated	plan map to allow for adequate evaluation	
1092.09(l)(6)(K)	New	Requires showing the location of any other area(s) where non-standard practices on logging roads are proposed	Ensures locations of non-standard practices related to logging road- and landing-related features are shown on the plan maps and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(7)(A)	1092.09(l)(8), new	Requires showing the location of existing logging road watercourse crossings within the harvest area, states it includes those crossings to be abandoned or deactivated, indicates that this requirement may be met by depicting the intersection of a logging road and a watercourse, and omits the exception of temporary crossings of Class III watercourses not flowing water at the during timber operations at that crossing	Maintains all plan-related mapping in the contents of plan portion of the rules, clarifies what logging road watercourse need to be shown, and clarifies how the logging road watercourse crossings may be depicted	
1092.09(l)(7)(B)	1092.09(l)(8), new	Requires showing the location of constructed and reconstructed logging road watercourse crossings within the harvest area, states those include crossings to be abandoned or deactivated, and omits the exception of temporary crossings of Class III watercourses not flowing water at the during timber operations at that crossing	Maintains all plan-related mapping in the contents of plan portion of the rules and clarifies what logging road watercourse need to be shown	
1092.09(l)(7)(C)	1092.09(l)(8), new	Requires showing the location of the following logging road watercourse crossings, which are: (i) not within the harvest area but are under the ownership or control of the owner of the timberland where timber is proposed for harvest and (ii) between the harvest area and the first public road to be used for log hauling: (i) Existing logging road watercourse crossings of Class I and Class II waters that will be used for log hauling; (ii) Constructed and reconstructed logging road watercourse crossings that will be used for log hauling; and (iii) Existing logging road watercourse crossings to be abandoned or deactivated, indicates that this requirement may be met by depicting the intersection of a logging road and a watercourse, and omits road failures on existing roads to be reconstructed	This rule section is meant to clarify mapping of appurtenant roads without actually calling them as such, maintain all plan-related mapping in the contents of plan portion of the rules, and delete the portion pertaining to road failures, since it has moved to another rule subsection	

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Comparison of Proposed Road Rules Task Force (RRTF) Road Rules 2007 with Existing Road-Related Forest Practice Rules PFR Edits 2/20/08 and 11/6/09

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Proposed Rule	Existing Rule	Rule Changes or Contents	Reason for Rule Change or Addition <u>or</u> <u>Comment</u>	<u>Clerical,</u> <u>Technical,</u> <u>Policy</u> <u>or</u> <u>ASP</u> Change?
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1092.09(l)(8)	1092.09(l)(8), new	Changes requirement of showing all road crossings to showing the location of all tractor road watercourse crossings of classified watercourses, changes portion excepting temporary crossings of Class III watercourses without flowing water during timber operations at that crossing to those that are dry at the time of use, and removes showing road failures on existing roads to be reconstructed	Makes this subsection specific to tractor roads, since logging road crossings are specifically addressed in their own rule subsections, clarifies when to show temporary crossing of Class III tractor roads, and maintains all plan-related mapping in the contents of plan portion of the rules	
1092.09(l)(10)	1092.09(l)(10)	Adds lakes to waters that require mapping	Makes mapping of lakes consistent with classifying them, providing protection, etc. and maintains all plan-related mapping in the contents of plan portion of the rules	

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916.9(l), 936.9(l), 956.9(l)

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T or I watersheds: Requires the operation of trucks and heavy equipment on logging roads and landings to be limited to those with a stable operating surface where saturated soil conditions are not present

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Makes rule subsection specific to prevention of use of logging roads and landings under saturated soil conditions and where a stable operating surface is not present

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Expands area of protection within T or I watersheds

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which meet the criteria of Class I waters based on biological characteristics, to

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923.10(j)(1), 943.10(j)(1), 963.10(j)(1)

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916.9(h)(2)-(3), 936.9(h)(2)-(3), 956.9(h)(2)-(3)

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T or I watersheds: Requires plans with timber operations within the Class I WLPZ to describe all existing permanent logging road watercourse crossings, contain specifications regarding how these crossings are to be modified, used and treated to achieve the standards of 923.10(i) [943.10(i), 963.10(i)], and contain enforceable specifications for construction and operation of any new crossing to prevent direct harm, habitat degradation, water velocity increase, hindrance of fish passage, or other potential impairment of the beneficial uses of water

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Allows all logging road watercourse crossing-related use to be addressed in 923 [943, 963] *et seq.*

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and allows exceptions where existing crossings located in the same physiographic environment have remained intact and undamaged following stressing storms

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