

## Oregon Residential Specialty Code – Mechanical Matrix –

For the adoption of the 2008 Oregon Residential Specialty Code.

Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
<b>Chapter 12</b>						
<b>Mechanical Administration</b>						
	M1201.1 Exception			<b>Disapproved</b>	Approve committees recommendation	Exception adds language about boiler regulations. (Put in box)
<a href="#">41</a>			M1201.1	<b>Approved</b>	Approve committees recommendation	New proposal to clarify the scoping . identical to OMSC.
	M1203			<b>Disapproved</b>	Approve committees recommendation	Authority to disconnect service utilities.
<a href="#">5</a>			M1203	<b>Approved</b>	Approve committees recommendation	New proposal to move this section to R111.
<b>Chapter 13</b>						
<b>General Mechanical Systems Requirements</b>						
		M1302		<b>Approved</b>	Approve committees recommendation	Clarifying language only.
		M1303 (5)		<b>Approved</b>	Approve committees recommendation	Adds maintenance instructions.
	M1303 (6)			<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Reference to DEQ label. (Put in box)
		M1305.1		<b>Approved</b>	Approve committees recommendation	Clarifying language only.

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
	M1305.1.3 Exception 1 & 3			<b>Disapproved</b> (Exception 1 only)	Approve committees recommendation	Clarifying language only. Exception #2 deals with existing structures and was put here via an Or. Am. because the model code does not address existing installations.
<a href="#">42</a>			M1305.1.3 Exception 1 & 3	<b>Approved</b>	Approve committees recommendation	New proposal to delete Or Am in exception 1.
		M1305.1.3 Exception 2		<b>Approved</b>	Approve committees recommendation	New alternative, allows up to 50' of travel if 6' of head room.
	M1305.1.4 Exception 1 & 3			<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Clarifying language only. Exception #2 deals with existing structures and was put here via an Or. Am. because the model code does not address existing installations.
<a href="#">42</a>			M1305.1.4 Exception 1 & 3	<b>Approved</b>	Approve committees recommendation	New proposal to delete Or Am in exception 1.
		M1305.1.4 Exception 2		<b>Approved</b>	Approve committees recommendation	New alternative, unlimited travel if 6' of head room.
	M1307.3.1			<b>Approved</b>	Approve committees recommendation	Reference to Figure for barrier protection. This Or. Am. fills in a gap in model code. It gives some prescriptive guidelines for appliance protection.
		M1307.4		<b>Approved</b>	Approve committees recommendation	Deleted some hydrogen provisions.
		M1307.4.1		<b>Approved</b>	Approve committees recommendation	Moved some of the language from M1304 into this section and added some clarifying language.
		M1307.4.1.1		<b>Approved</b>	Approve committees recommendation	Clarifying language only.
		M1307.4.2		<b>Approved</b>	Approve committees recommendation	Clarifying language only.
	M1307.5			<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> to view modification)	Approve committees recommendation	Wood stove requirements and reference to DEQ. (Put in box)
	Figure M1307.2			<b>Approved</b>	Approve committees recommendation	Vehicle barrier examples.

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<a href="#">43</a>			M1308.2	<b>Approved</b> (Section M1308.2 only)	Approve committees recommendation	New proposal to clarify intent of what kind of piping materials don't need nail plate protection. Cast-iron is not typically used.
		M1308.3		<b>Approved</b>	Approve committees recommendation	New generic section on outdoor equipment support. Already covered in several sections, see sections M1403.2, M1413.1 & G2408.4.
<a href="#">43</a>			M1308.3	<b>Approved</b> (Section M1308.3 only)	Approve committees recommendation	New proposal to exempt A/C condensers.
	M1309			<b>Approved</b>	Approve committees recommendation	Oregon adds this section and sub-sections to clarify pipe support requirements.
	Table M1309.1			<b>Approved</b>	Approve committees recommendation	Oregon adds this table to clarify pipe support requirements.

**Chapter 14**  
Heating and Cooling Equipment

		M1410		<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	
		M1411.3.1		<b>Approved</b>	Approve committees recommendation	New language concerning slope of condensate drains.
		M1411.3.1(3 & 4)		<b>Approved</b>	Approve committees recommendation	Item 3 adds a standard reference and item 4 provides a new option.
		M1411.4		<b>Approved</b>	Approve committees recommendation	New clarifying language dealing with auxiliary drain pans.
	M1411.5			<b>Deleted due to the approval of code amendment proposal #44</b>	Approve committees recommendation	Oregon changes R-values for line sets.
<a href="#">44</a>			M1411.5	<b>Approved</b>	Approve committees recommendation	New proposal referencing the energy chapter for R-values.

**Chapter 15**

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
<b>Exhaust Systems</b>						
		M1501.1		<b>Approved</b>	Approve committees recommendation	New general clarifying language added.
		M1502.1 - .6		<b>Approved</b>	Approve committees recommendation	Reformatted
	M1502.2			<b>Approved</b>	Approve committees recommendation	Termination clarification.
	M1502.3			<b>Approved</b>	Approve committees recommendation	Minimum size specified.
	M1502.4			<b>Approved</b>	Approve committees recommendation	Oregon deletes reference to standard
	M1502.5			<b>Approved</b>	Approve committees recommendation	Support clarification.
	M1502.6			<b>Approved</b>	Approve committees recommendation	Exhaust penetration clarification.
		M1502.7 Ex. 1		<b>Approved</b>	Approve committees recommendation	Model code deletes this exception.
<a href="#">45</a>			M1502.7 Ex. 1	<b>Disapproved</b>	Approve committees recommendation	New proposal to add back in this exception.
		M1502.7 Ex. 2		<b>Approved</b>	Approve committees recommendation	New exception dealing with long radius ells.
<a href="#">45</a>			M1502.7 Ex. 2	<b>Approved</b>	Approve committees recommendation	New proposal to add back in this exception.
	M1502.8			<b>Approved</b>	Approve committees recommendation	Rough-in required.
	M1502.9			<b>Approved</b>	Approve committees recommendation	Make-up air provisions.
<a href="#">46</a>			M1503.1 -.4	<b>Approved as modified</b> (see <a href="#">7/19/07 meeting minutes</a> to view modification)	Approve committees recommendation	Revamps this section to mandate kitchen exhaust be taken to the exterior for all kitchens. Deletes re-circulating fan exception.

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
		M1507.2		<b>Approved</b>	Approve further modifications ( <a href="#">see Board minutes from 10-3-07</a> )	Clarifying language added.
	M1507.4			<b>Approved as modified</b> (see <a href="#">7/19/07 meeting minutes</a> to view modification)	Approve further modifications ( <a href="#">see Board minutes from 10-3-07</a> )	Requirement for bathing facilities to have mechanical exhaust.
	Table M1507.3			<b>Approved as modified</b> (see <a href="#">7/19/07 meeting minutes</a> to view modification)	Approve further modifications ( <a href="#">see Board minutes from 10-3-07</a> )	Clarifying amendments.
			CCTF modifications to M1507	<b>Approved as modified</b> (see <a href="#">7/19/07 meeting minutes</a> to view modification)	Approve further modifications ( <a href="#">see Board minutes from 10-3-07</a> )	These modifications include some or parts of the existing Or. Am., but have been further clarified to address specific moisture issues.

**Chapter 16  
Duct Systems**

	M1601.1.1 & M1601.1.1.1			<b>Approved</b>	Approve committees recommendation	Oregon deletes the ability to pan floor joist except for re-model work.
	M1601.2.2			<b>Disapproved</b>	Approve committees recommendation	Vibration isolator clarification.
	M1601.3 & sub-sections			<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Oregon re-writes this section to clarify the sealing requirements for ducts.
		M1601.3.2		<b>Approved</b>	Approve committees recommendation	New requirement for flex fasteners to be listed to UL 181.
	M1601.3.2			<b>Disapproved</b>	Approve committees recommendation	Clarifies fastening of flex duct
	M1601.3.5 (1)			<b>Approved</b>	Approve committees recommendation	Oregon deletes item #1 because it's not relevant in Oregon's climate.

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
	M1601.3.5 (3)			<b>Disapproved</b>	Approve committees recommendation	Clarifying language.
	M1601.3.7 Exception			<b>Approved</b>	Approve committees recommendation	Oregon exception recognizing approved ground cover.
	M1601.4			<b>Approved</b>	Approve committees recommendation	Oregon deletes this section on underfloor space used as plenums.
	M1602.1.1			<b>Approved</b>	Approve committees recommendation	Minimum required area for return air.
	M1603			<b>Approved</b>	Approve committees recommendation	Minimum required area for supply air.
	M1604			<b>Approved</b>	Approve committees recommendation	Clarifying language for smoke/fire dampers
<b>Chapter 17</b>						
<b>Combustion Air</b>						
	M1701.2			<b>Approved</b>	Approve committees recommendation	Clarifying language for inspection of combustion air.
		M1703.2.1		<b>Approved</b>	Approve committees recommendation	Clarification only.
	M1704			<b>Approved</b>	Approve committees recommendation	Combined use of outdoor and indoor air for combustion purposes.
<b>Chapter 18</b>						
<b>Chimneys and Vents</b>						
	M1801.1.1			<b>Approved</b>	Approve committees recommendation	This deals with protection and is a safety issue.
	M1804.2.6(8)			<b>Disapproved</b>	Approve committees recommendation	Clarifys termination for mechanical draft systems
	M1804.3.2			<b>Approved as modified</b> (see <a href="#">7/19/07 meeting minutes</a> to view modification)	Approve committees recommendation	This provides direct on sizing venting systems for multiple applainces.

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
<b>Chapter 19</b>						
<b>Special Fuel-Burning Equipment</b>						
	M1901			<b>Disapproved</b>	Approve committees recommendation	Oregon deletes this section and replaces it with two new sections.
	M1903			<b>Approved</b>	Approve committees recommendation	Added language concerning turbine-powered equipment.
	M1904			<b>Approved</b>	Approve committees recommendation	Added language concerning kilns.
		M1906		<b>Approved</b>	Approve committees recommendation	New clarifying language dealing with gaseous hydrogen systems
<b>Chapter 20</b>						
<b>Boilers and Water Heaters</b>						
	Reference Box			<b>Will be retained - No motion needed</b>	Approve committees recommendation	
		M2006.3		<b>Approved</b>	Approve committees recommendation	
<b>Chapter 21</b>						
<b>Hydronic Piping</b>						
		M2103.1		<b>Approved</b>	Approve committees recommendation	ICC added PEX to the list of materials for embedment.
		M2103.2 (5) & (6)		<b>Approved</b>	Approve committees recommendation	ICC added description of pipe joints for poly & PEX piping.
	M2103.3			<b>Approved</b>	Approve committees recommendation	Test duration changed from 30 min. to 15 min. to be consistent with M2101.10 & OMSC.
<a href="#">47</a>			M2103.3	<b>Approved as modified</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	New exception suggested to allow air test only on PEX system. This is consistent with OMSC.

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<a href="#">47</a>			M2103.4	Approved as modified (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Add new clarification to keep test on embedded system while concrete is being poured. Language is from the OMSC.
		M2104.2(3)		Approved	Approve committees recommendation	Clarifying language only.
<b>Chapter 22</b> Special Piping and Storage Systems						
		M2201.7		Approved	Approve committees recommendation	New section dealing with abandoned or removed oil tanks.
<b>Chapter 23</b> Solar Systems						
	M2301.1			Approved	Approve committees recommendation	Clarifies scope of solar work.
<b>Chapter 24</b> Fuel Gas						
	G2401.1			Approved	Approve committees recommendation	Misc. editorial changes, Items 2 & 4 in the exceptions changed <del>LP</del> to generic <del>Fuel</del> -gas.
	G2402.1 & G2402.2			Approved	Approve committees recommendation	Clarifies authority to render gas service.
	G2403 Definitions			Approved as modified (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Several definitions have been deleted and/or added. See hand-out to view.
		G2403 Definitions		Approved as modified (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	Several definitions have been deleted and/or added. See hand-out to view.

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<a href="#">37</a>			G2403 Definitions	Approved	Approve committees recommendation	Modification to the definition of "Point of delivery". Clarifies current enforcement provisions.
	G2404.1			Approved	Approve committees recommendation	Oregon adds reference to ANSI Z223.1.
	G2404.3			Disapproved	Approve committees recommendation	Model code required engineering, Oregon deleted.
		G2404.3		Approved	Approve committees recommendation	Clarification for appliance use.
	G2404.4			Disapproved	Approve committees recommendation	Clarification
	G2404.6			Approved	Approve committees recommendation	Oregon deleted this section on wind resistance.
	G2404.8			Approved	Approve committees recommendation	Oregon deleted this section on seismic resistance.
		G2404.8		Approved	Approve committees recommendation	New section on auxiliary pans. Seems to be redundant, Same as M1411.4.
		G2405.3		Approved	Approve committees recommendation	New section on engineered wood products.
		G2406.2		Approved	Approve committees recommendation	This section has been reformatted only.
	G2406.3			Disapproved	Approve committees recommendation	Language seems ambiguous.
	G2407.2			Disapproved	Approve committees recommendation	Oregon deletes the word "ventilation" because unlike the OMSC there are no specific ventilation requirementsw found in the ORSC.
	G2407.7.1			Approved	Approve committees recommendation	Oregon adds a sub-section concerning special conditions relating to exhaust fans exceeding 350 cfm.
	G2407.9.4			Approved	Approve committees recommendation	This sub-section allows outdoor air to be connected to a return air duct.

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	G2407.10			<b>Disapproved</b>	Approve committees recommendation	Oregon deletes the word "ventilation" because unlike the OMSC there are no specific ventilation requirements found in the ORSC.
	G2407.11(9)			<b>Disapproved</b>	Approve committees recommendation	Oregon added a 9th condition for combustion air.
	G2407.12			<b>Approved</b>	Approve committees recommendation	Oregon deleted this section due to its commercial application.
	G2408.2			<b>Approved</b>	Approve committees recommendation	Oregon substitutes model code language with simpler more precise language.
		G2408.2, Exception		<b>Approved</b>	Approve committees recommendation	
	G2408.3 Exception			<b>Roadmap</b>	Approve committees recommendation	Reference to figure was added.
	G2409.4.1 -.6			<b>Approved</b>	Approve committees recommendation	Oregon deletes "...low pressure boilers...."
	G2411.1			<b>Approved</b>	Approve committees recommendation	Oregon deletes model code language and refers the user of the code to the appropriate electrical section.
	G24.12.1			<b>Approved</b>	Approve committees recommendation	Oregon deleted "maintenance" in a couple of places.
	G24.12.1.1			<b>Disapproved</b>	Approve committees recommendation	Oregon deleted "... <del>structural safety and fire protection</del> ....", to make this section more generic. Utility piping installed inside of a building must follow more than just the structural and fire safety requirements, they must follow all of the installation requirements of this code.
	G2412.2.1			<b>Placed in a reference box</b>	Approve committees recommendation	Oregon adds Fire Marshals requirements for LP tank installations. (Put in box)
	G2413.3			<b>Approved</b>	Approve committees recommendation	
	G2413.6.2			<b>Disapproved</b>	Approve committees recommendation	Oregon adds Fire Marshals requirements for LP license requirements. (Put in box)

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		G2414.6.3		<b>Approved</b>	Approve committees recommendation	Allows PVC to be use for venting of regulators.
		G2415.1		<b>Approved</b>	Approve committees recommendation	New language prohibiting gas piping from extending through townhouses.
		G2415.5		<b>Approved</b>	Approve committees recommendation	
<a href="#">39</a>			G2415.5	<b>Approved</b>	Approve committees recommendation	See code change for G2426.7. This is for consistency. Change the 4" to 2".
		G2415.6		<b>Approved</b>	Approve committees recommendation	Clarifying language concerning venting of conduit for under slab piping.
	G2415.8 & sub-sections			<b>Approved</b>	Approve committees recommendation	Long standing Oregon amendment deletes model code and replaces with a more detailed discription of underground piping protection.
	G2415.9			<b>Approved</b>	Approve committees recommendation	Oregon changes <del>12"</del> to <b>18"</b> .
	G2415.10.1			<b>Approved</b>	Approve committees recommendation	Oregon adds section clarifing underground seperation from other utilities.
	G2415.14.1 Exception 3			<b>Approved</b>	Approve committees recommendation	Oregon adds exception 3 to clarify that plastic piping under outdoor slabs is permitted.
	G2417.1.1.1 & .2			<b>Approved</b>	Approve committees recommendation	Clarifies inspections required.
	G2417.4.1			<b>Approved</b>	Approve committees recommendation	Clarifies and simplifies the testing requirements, and deletes model codes lengthy language for testing.
	G2419.1 - .3			<b>Disapproved</b>	Approve committees recommendation	Oregon has deleted these section because the natural gas in Oregon is dry.
<a href="#">40</a>			G2419.1	<b>Approved</b>	Approve committees recommendation	New proposal to add back-in "...decorative appliances...."
		G2420.1.1		<b>Approved</b>	Approve committees recommendation	Reformatting only, model code added a new table showing the standards.
		Table G2420.1.1		<b>Approved</b>	Approve committees recommendation	Gas valve standards.

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		G2421.1		<b>Approved</b>	Approve committees recommendation	
	G2421.2			<b>Disapproved</b>	Approve committees recommendation	Clarifies intent
	G2421.3			<b>Disapproved</b>	Approve committees recommendation	Oregon added a standard for leak detection
<a href="#">38</a>			G2421.3	<b>Withdrawn</b> (G2421.3 only)	no action taken	Delete Oregon amendment
		G2421.3.1		<b>Approved</b>	Approve committees recommendation	New section concerning vent piping of gas regulators.
<a href="#">38</a>			G2421.3.1	<b>Approved</b> (G2421.3.1 only)	Approve committees recommendation	New proposal would delete last sentence.
		G2422.1		<b>Approved</b>	Approve committees recommendation	Added two new provisions for connectors.
		G2422.1.2		<b>Approved</b>	Approve committees recommendation	Reformatted this section and the subsections
	G2423.1			<b>Disapproved</b>	Approve committees recommendation	Oregon adds clarification
	G2424.1			<b>Disapproved</b>	Approve committees recommendation	Oregon adds clarification
	G2425.1			<b>Approved</b>	Approve committees recommendation	Oregon deleted "maintenance".
	G2425.3			<b>Disapproved</b>	Approve committees recommendation	Oregon deleted reference to G2427.5.
	G2425.11			<b>Disapproved</b>	Approve committees recommendation	Oregon deleted redundant language.
		G2426.7		<b>Approved</b>	Approve committees recommendation	New section on nailing plates
<a href="#">39</a>			G2426.7	<b>Approved</b>	Approve committees recommendation	New proposal to modify this new language to be consistent with other sections in the code. See Section G2415.5 above.
	G2427.5.2			<b>Approved</b>	Approve committees recommendation	Oregon sends user to Ch 10 rather than NFPA 211.

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		G2427.5.3		<b>Approved</b>	Approve committees recommendation	Clarification language added.
	G2427.5.5.1			<b>Approved</b>	Approve committees recommendation	Oregon deletes exception
	G2427.5.5.2			<b>Approved</b>	Approve committees recommendation	Oregon deletes un-enforceable language.
		G2427.5.5.3		<b>Approved with modification</b> (see <a href="#">6/14/07 meeting minutes</a> for modification)	Approve committees recommendation	
		G2427.6.4		<b>Approved</b>	Approve committees recommendation	"Offsets" was deleted and moved.
		G2427.6.4		<b>Approved</b>	Approve committees recommendation	Items 1 & 2 reformatted and wordsmith.
		G2427.6.6		<b>Approved</b>	Approve committees recommendation	New section on roof termination.
		G2427.6.7		<b>Approved</b>	Approve committees recommendation	New section on forced air inlets.
		G2427.6.9.2		<b>Approved</b>	Approve committees recommendation	New location for "Offsets"
		G2427.7.2		<b>Approved</b>	Approve committees recommendation	Clarification concerning uninsulated single-wall vents.
	G2427.10.2.2 Exception			<b>Approved</b>	Approve committees recommendation	Oregon adds "...garages..." to the list of places considered to be unconditioned.
		G2427.10.9		<b>Approved</b>	Approve committees recommendation	Clarification for single-wall metal venting.
		G2427.10.14		<b>Approved</b>	Approve committees recommendation	Clarification for single-wall metal venting.
		G2428.3.9.1		<b>Approved</b>	Approve committees recommendation	New section for "Tee and wye fittings".
		G2428.3.19		<b>Approved</b>	Approve committees recommendation	New section on "Draft hood conversion accessories".

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Item Number	Existing 2005 ORSC amendments	2006 IRC model code changes	New proposals	Committee recommendation	Board recommendation	Comments
	G2431.1			<b>Approved</b>	Approve committees recommendation	Oregon deleted "maintenance".
	G2432.1 & .2			<b>Disapproved</b>	Approve committees recommendation	Delete reference to ANSI Z 21.84.
	G2433.1			<b>Approved</b>	Approve committees recommendation	Delete reference to CSA 8.
	G2438.1			<b>Approved</b>	Approve committees recommendation	For consistency Oregon has deleted section and references M1502.
	G2439			<b>Approved</b>	Approve committees recommendation	For consistency Oregon has deleted section entirely. User should go to M1502 for dryer provisions.
	G2439.1			<b>Approved</b>	Approve committees recommendation	Oregon section on gas turbines and generators.
	G2440.1			<b>Approved</b>	Approve committees recommendation	For consistency Oregon references M1902.
	G2440.2, .3, .6 & .7			<b>Approved</b>	Approve committees recommendation	For consistency Oregon has deleted sections entirely. User should go to M1902 for sauna provisions.
	G2440.3			<b>Approved</b>	Approve committees recommendation	Oregon deleted "...and ventilation .." in two places. Ventilation is not specifically addressed in this code.
	G2442.5			<b>Disapproved</b>	Approve committees recommendation	Oregon adds an exception to item No. 1.
		G2445.7.1		<b>Approved</b>	Approve committees recommendation	New section concerning ventless firebox enclosures.
	G2448.1 - .2			<b>Roadmap</b>	Approve committees recommendation	Oregon adds roadmaps
	G2452			<b>Approved</b>	Approve committees recommendation	Oregon deletes section on boilers