

Group 1 WSEC-Commercial Code Proposals - 2021

Proponent	Section	Subject	Init. Log Number	Tentative Date	TAG Action	Committee Action	Council Action
Jonny Kocher, RMI	403.1.4, 407, 503.4.1, 503.4.6	Space Heating Proposal	21-GP1-103	13-Aug	AM 7/16/21 Further modified 7/23		
Reid Hart, PNNL	403.4.11.1 & 406	HVAC applications	21-GP1-206		AM 8/13/21; Further editorials to be worked out for 8/20 meeting		
Michael Rosenberg Pacific NW National	407	Total Building Performance	21-GP1-70	13-Aug	**AM 7/23/21; sections to be revisited		
Henry Odum, Ecotope	403.5.11 & 403.14	Operable Openings	21-GP1-240	13-Aug	Tabled 8/13/21		
Eric Vander Mey, Rushing	403.10.3	Refrigerant piping clarifications	21-GP1-226	13-Aug	Tabled 8/13/21		
Sean Denniston, New Buildings	404.14	DR Water Heaters	21-GP1-99	13-Aug	Tabled 8/13/21		
Gavin Tenold, WA Solar Energy Industries Assoc	202, 406, 407, 412 411, with carry over to	Community Solar Project	21-GP1-120	13-Aug	Tabled 8/13/21		
Mark Frankel, Ecotope	406, 407	RENEWABLE ENERGY	21-GP1-78	13-Aug	Tabled 8/13/21		
Alexander Ratcliff, PAE Consulting Engineers	406	Fault Detection and Diagnostic System	21-GP1-107	13-Aug			
Chelsea Guenette, PAE Consulting Engineers	406	DOAS- HR	21-GP1-109	13-Aug			
Aaron Whitlatch, Rushing	406	Lighting reduction	21-GP1-210	13-Aug			
Austin Bonnes, Rushing	406.1	Heat pump dryers	21-GP1-231	13-Aug			
Austin Bonnes, Rushing	406.1	Radiant heating and cooling	21-GP1-232	13-Aug			
Austin Bonnes, Rushing	406.1	Temp set points	21-GP1-233	13-Aug			
Mark Frankel, Ecotope	406.1	Additional efficiency	21-GP1-146	13-Aug	Tabled 8/13/21		
Reginald Christor, Rushing	406.13	High performance temperature maintenance system	21-GP1-213	13-Aug			
Chris Little, Rushing	406.13	Drainwater heat recovery	21-GP1-214	13-Aug			
Chris Little, Rushing	406.13	High efficiency circulation systems	21-GP1-215	13-Aug			
Anton Leitner, Rushing	406.13	Appendix M plumbing sizing for DCW/DHW	21-GP1-217	13-Aug			
Chris Little, Rushing	406.13	Low flow showerheads for R-1 and R-2 occupancies	21-GP1-218	13-Aug			
Eric Vander Mey, Rushing	406.2	Building areas and occupancies	21-GP1-221	13-Aug	Tabled 8/13/21		
Aaron Whitlatch, Rushing	406.3	Reduced lighting dwelling units	21-GP1-210	13-Aug			
Eric Vander Mey, Rushing	406.5	On-site renewable energy.	21-GP1-220	13-Aug	Tabled 8/13/21		
Aaron Whitlatch, Rushing	406.7	High performance dedicated outdoor air system (DOAS)	21-GP1-211	13-Aug			

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Clarence Clipper, Centrio	202/403.1.1/ 404.2.2/406	Low-Carbon district energy x 3	21-GP1-121	13-Aug			
Alexander Ratcliff, PAE Consulting Engineers	406.1 & 406.12	Enhanced Commercial Kitchen equipment	21-GP1-106	13-Aug			
Rahul Athalye, NORESKO	406.4.13, 406.4.14	Enhanced Kitchen and Laundry equipment in accordance with Section 406.13 and 406.14	21-GP1-88	13-Aug			
Chris Little, Rushing	406.8 and 406.9	clarification of service water heat pump efficiencies	21-GP1-212	13-Aug			
Dan Kirschner, NW Gas Association	Table 406.1 and Sections 406.8 and 406.9	Efficiency	21-GP1-140	13-Aug			
Clarence Clipper, Centrio	202/407.3/ 404.2.1	Low-Carbon district energy x 2	21-GP1-122	13-Aug			
Mike Kennedy	410	Unscramble refrigeration language	21-GP1-128	13-Aug			
Aaron Tanner, Rushing	409.4.1 through 409.4.3	Consumption rate and display clarifications	21-GP1-223	13-Aug			
Mark Frankel, Ecotope	501, New 501.7	Building Energy Performance EUI	21-GP1-79	13-Aug			
Lisa Rosenow, Evergreen Technology Consulting	501.2, 503.2, 503.3, 505.1	Change in space conditioning	21-GP1-114	13-Aug			
Sean Denniston	502, 503, new 506	Historic Buildings	21-GP1-102	13-Aug			
Lisa Rosenow, Evergreen Technology Consulting	502.1, 502.2, 502.3, 503.1, 503.3 through 503.7	Existing Building Language Cleanup	21-GP1-112	13-Aug			
Lisa Rosenow, Evergreen Technology Consulting	Table 503.4	PTHP PTAC	21-GP1-183	13-Aug			
Mike Baranick, Hargis Engineers	503.8 (new section)	compliance path for building alterations	21-GP1-118	13-Aug			
Eric Vander Mey, Rushing	403.5 Exceptions 1 and 5	Airside Economizer	21-GP1-228		AM 8/20/21		
Duane Jonlin, City of Seattle	403.11	Extend radiant heating req't to include unheated spaces	21-GP1-172		WD 8/20/21		
Duane Jonlin, City of Seattle	402.2.8 & 9 new sections	Thermal bridging concrete balconies and fenestration framing	21-GP1-159		AM 8/20/21		
Nicholas O'Neil, Energy 350	202, 405.13	UPS efficiency for computer rooms	21-GP1-137		AS 8/20/21		
Eric Vander Mey, Rushing	403.4.11	DDC Controls	21-GP1-227		AM 8/20/21		
Doug Smith Meng Analysis	408	Lower Commissioning exception thresholds	21-GP1-101		AM 8/20/21		
Eric Vander Mey, Rushing	409.1	Source vs End use metering exceptions	21-GP1-222		AM 8/20/21		
Mike Kennedy	412	COMPRESSED AIR	21-GP1-193		AM 8/20/21		
Lisa Rosenow, Evergreen Technology Consulting	409.1.2, 409.4.4, 409.5	Metering corrections/clarifications	21-GP1-238		AS 8/20/21		
Lisa Rosenow, Evergreen Technology Consulting	411.1, 502.1, 503.1, 505.1	Solar Readiness Provision	21-GP1-115		AS 8/20/21		
Nicholas O'Neil, Energy 350	202, 403.1.3	Data Center MLC Updates	21-GP1-235		AM 8/13/21		
Henry Odum, Ecotope	403.3.5.5	DOAS Tempering	21-GP1-239		AM 8/13/21		
Duane Jonlin, City of Seattle	403.3.7 new section	Hydronic system max flow in piping system	21-GP1-166		AM 8/13/21		
Mike Kennedy	403.7.1	DCV	21-GP1-190		AM 8/13/21		
Mike Kennedy	403.7.5	Garage Ventilation	21-GP1-191		AS 8/13/21		
Eric Vander Mey, Rushing	403.7.5.2	Parking garage vent controls	21-GP1-229		AS 8/13/21		
Nicholas O'Neil, Energy 350	403.7.7.1.3	Kitchen DCV	21-GP1-236		AM 8/13/21		

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Sean Denniston, New Buildings Institute	403.4.1	DR Thermostats	21-GP1-97		AM 8/13/21		
Mike Kennedy	403.3.2.4, 403.4.1.1	Packaged electric heating and cooling equipment.	21-GP1-194		AM 8/13/21		
Sean Denniston, New Buildings Institute	403.15	Indoor Horticulture Dehumidification	21-GP1-95		AM 8/13/21		
Lisa Rosenow, Evergreen Technology Consulting	403.5	PTHP Econo Exp for Group R1 and I1	21-GP1-184		Withdrawn 8/13/21		
Lisa Rosenow, Evergreen Technology Consulting	403.5	Group R2 Exclusion for Econo Exp 1	21-GP1-185		AS 8/13/21		
Jonny Kocher, RMI	404.2.1, 404.2.2, 406.1, 406.8, 406.9	heat pump water heating	21-GP1-136		AM 8/13/21; minor editorials still needed		
Duane Jonlin, City of Seattle	405.7.1	Electrical receptacles at gas appliances	21-GP1-179		AM 8/13/21		
Lisa Rosenow, Evergreen Technology Consulting	202, 403.3.5.1, 403.3.5.2, 403.3.5.3, 403.3.5.4, 406.7	DOAS fan power	21-GP1-110		AM 7/23/21		
Nicholas O'Neil, Energy 350	202, 403.8.1, 403.8.1.1, 403.8.1.2, 503.4, 503.4.6, 403.3.5.1, 403.6.10, 403.12	Fan Power Allowance tables	21-GP1-138		AM 7/23/21		
Michael Rosenberg Pacific NW National	403.1.1 and App D	HVAC TSPR	21-GP1-69		AM 7/23/21		
Mike Kennedy	403.2.2, 406.6, 406.7	Over 150 pct Ventilation - DOAS ERV	21-GP1-188		AM 7/23/21		
Lisa Rosenow, Evergreen Technology Consulting	Chapter 6, 403.3.5.1, 403.3.6, 406.7	DOAS Sensible Recovery Readiness	21-GP1-113		AM 7/23/21		
Lisa Rosenow, Evergreen Technology Consulting	403.3.5.1	DOAS DCV Exception	21-GP1-111		AM 7/23/21		
Duane Jonlin, City of Seattle	403.3.5.1	60% enthalpy ERV required for DOAS, except R1/R2	21-GP1-165		AM 7/23/21		
Mike Kennedy	403.8.1	DOAS Allowable fan motor horsepower	21-GP1-187		WD 7/23/21		
Mike Baranick, Hargis Engineers	403.1.1	HVAC TSPR	21-GP1-119		WD 7/23/21		
Mike Baranick, Hargis Engineers	407.2 & 407.3	Mandatory Requirements	21-GP1-117		WD 7/23/21		
Lisa Rosenow, Evergreen Technology Consulting	202	Definition Updates	21-GP1-148		AM 7/09/21		
Aaron Whitlatch, Rushing	202	Definitions	21-GP1-224		AM 7/09/21		
Mike Kennedy	401.1	Process Form	21-GP1-129		AS 6/25/21		
Aaron Whitlatch, Rushing	402.1.1.1	Low energy buildings	21-GP1-225		AS 7/09/21		
Mike Kennedy	402.1.1.2	Semiheat	21-GP1-130		AM 7/16/21		
Duane Jonlin, City of Seattle	402.1.1.2	Semi-heated buildings definition	21-GP1-158		AM 7/09/21		
Duane Jonlin, City of Seattle	202, Table 402.1.3(i)	Continuous insulation, Stainless steel penetrations	21-GP1-157		AS 7/16/21		
Lisa Rosenow, Evergreen Technology Consulting	402.1.5.1, 402.2, Table 402.1.3	General Updates	21-GP1-149		AS 6/25/21		
Lisa Rosenow, Evergreen Technology Consulting	202, Table 402.1.3, Table 402.1.4	Mass Transfer Decks	21-GP1-150		AM 7/16/21		
Luke Howard, Dept of Commerce	402.1.3 footnote c & 402.1.4 footnote d	CMU Walls Table	21-GP1-207		AS 7/16/21		
Luke Howard, Dept of Commerce	402.1.3 footnote c & 402.1.4 footnote d	Elimination of table	21-GP1-208		AS 7/16/21		
Duane Jonlin, City of Seattle	402.1.4.3	PTAC U-factors	21-GP1-160		AS 7/16/21		
Alexander Ratcliff, PAE Consulting Engineers	402.2.5	Rooms containing fuel-burning appliances	21-GP1-104		AS 7/16/21		
Duane Jonlin, City of Seattle	Table 402.4	Reduce fenestration U-values	21-GP1-161		AM 7/30/21		
Mike Kennedy	402.4.2	Minimum Skylight fenestration	21-GP1-131		AS 7/16/21		
Michael Fowler, Passive House NW	402.5.2 and 402.5.3	Dwelling Unit Enclosure	21-GP1-91		AM 7/16/21		

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Chelsea Guenette, PAE Consulting Engineers	402.5.3	Building thermal envelope testing	21-GP1-108		AS 7/16/21		
Duane Jonlin, City of Seattle	402.5.7	No vestibules req'd for doors to outdoor dining	21-GP1-162		AS 6/25/21		
Nicholas O'Neil, Energy 350	202, 403.3.4	Boiler Controls	21-GP1-139		AS 6/25/21		
Lisa Rosenow, Evergreen Technology Consulting	403.2.1, 403.4.1, 403.4.11.2, 403.4.11.3, 403.8.1, 403.9.2.2, 404.4, 411.2	General Mechanical updates	21-GP1-152		AM 6/25/21		
Duane Jonlin, City of Seattle	403.2.3	5 HP threshold for variable flow	21-GP1-163		AS 6/25/21		
Mike McGivern	403.2.3	DDC Systems	21-GP1-008		WD 8/02/21		
Alexander Ratcliff, PAE Consulting Engineers	403.2.5.7	Air intakes errata	21-GP1-105		AS 6/25/21		
Robby Oylear	403.3, 403.3.7, 403.3.7.1	New sub-section to 403.3 Equipment Selection 403.3.7 Hydronic Coil Selection 403.3.7.1 Chilled-Water Coil Selection	21-GP1-52		AM 7/30/21		
Mark Frankel, Ecotope	403.3.1.1	Hot Water Coil Capacity	21-GP1-147		Withdrawn after modification of 052 7/30/21		
Mike Kennedy	403.3.2	Boiler Efficiency	21-GP1-132		AM 6/25/21		
Lisa Rosenow, Evergreen Technology Consulting	403.3.2	General Mechanical updates Equip Re-org	21-GP1-154		AS 6/25/21		
Duane Jonlin, City of Seattle	403.3.2.4	Extend HP requirement from packaged to include split systems	21-GP1-164		AS 6/25/21		
Mike Kennedy	403.3.4.2 (new)	High capacity space heating boiler	21-GP1-133		AS 6/25/21		
Mike Kennedy	403.3.5	DOAS Exception modifications	21-GP1-189		WD 7/15/21		
Robby Oylear	403.4.4	Part load controls	21-GP1-54		AS 7/30/21		
Duane Jonlin, City of Seattle	403.4.12 new section	Pressure independent control valves	21-GP1-167		AM 6/25/21		
Lisa Rosenow, Evergreen Technology Consulting	403.6.10	General Mechanical updates-HEVAV	21-GP1-153		AS 6/25/21		
Duane Jonlin, City of Seattle	403.7.1	DCV threshold moves from 25 to 15 occ/1000 sf	21-GP1-168		AS 6/25/21		
Duane Jonlin, City of Seattle	403.7.5	Clarify that "garage" ventilation include repair garages	21-GP1-169		AM 6/25/21		
Duane Jonlin, City of Seattle	403.7.6	Increase ERV effectiveness from 50% to 60%, except R1/R2	21-GP1-170		AS 6/25/21		
Robby Oylear	403.8.2	Motor nameplate horsepower	21-GP1-51		WD By proponent 6/23/21		
Duane Jonlin, City of Seattle	403.9.1	Set cooling tower condenser water max temp	21-GP1-171		WD 7/26/21		
Lisa Rosenow, Evergreen Technology Consulting	403.10.1.1, 403.10.2	General Mech Updates to Duct Insulation	21-GP1-209		AM 6/25/21		
Howard Ahern, Airex MFG.	403.10.3.1	Protection of piping insulation	21-GP1-155		AM 6/25/21		
Robby Oylear	403.10.4	Insulation of refrigerant piping	21-GP1-53		WD By proponent 6/25/21		
Mike Kennedy	Table 404.2	Water Heater	21-GP1-192		AM 7/16/21; modified 7/30/21		
Duane Jonlin, City of Seattle	Table 404.3.1	Allow 8 feet of pipe length between circ pipe and lavatory, instead of just 1 or 2	21-GP1-173		AS 6/25/21		
Duane Jonlin, City of Seattle	404.6.1	Storage tank insulation for higher-temperature storage	21-GP1-174		AS 7/16/21		
Duane Jonlin, City of Seattle	404.7.1	Require thermostatic balancing valves and thermostatic mixing valves	21-GP1-175		AS 7/16/21		
Lisa Rosenow, Evergreen Technology Consulting	404.7.1, 404.7.1.1, 404.7.1.2	Circulation pump	21-GP1-182		AM 7/16/21		
Duane Jonlin, City of Seattle	404.7.3.1	Pipe insulation 1" thicker on circulation system piping	21-GP1-176		AS 7/16/21		
Duane Jonlin, City of Seattle	404.11.1	Pool water heaters over 2000 gallons req'd to be heat pump	21-GP1-177		AS 7/23/21		
Heli Ojamaa, Blanca Lighting Design	405.2	Interior Lighting Allowance	21-GP1-76		AM 7/09/21		

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Mike Kennedy	405.2	Lighting controls- LLLC	21-GP1-124		WD 7/09/21		
Duane Jonlin, City of Seattle	405.2	Require LLLC lighting or digital lighting control system for large open office areas.	21-GP1-178		AM 7/09/21		
Mike Kennedy	405.2	LLLC Relocation proposal	21-GP1-126		AM 7/09/21		
Shaun Darragh, Lighting Design Lab	405.2.1	Occupant Sensor Controls	21-GP1-93		AM 7/09/21 - But with the understanding it may be revisited		
Shaun Darragh, Lighting Design Lab	405.2.1 Ex 4	Timer Switches	21-GP1-92		AS 7/09/21		
Mike Kennedy	405.2.1.4, 405.2.8	Parking Garage Lighting	21-GP1-127		AS 7/09/21		
Lisa Rosenow, Evergreen Technology Consulting	405.2.2.1, 405.2.5, 405.4.2.2.1, 405.5.2, 405.5.3, 405.9.2	General Lighting Updates	21-GP1-237		AS 7/09/21		
Levi Snow	405.2.4	Daylight Harvesting	21-GP1-026		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.2.6	Nonvisual lighting	21-GP1-199		AM 7/09/21		
Mike McGivern	405.2.6(3)	Luminaires	21-GP1-009		AS 7/09/21		
Mike Kennedy	405.2.7.3	Lighting setback	21-GP1-125		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.2.7.3	Parking Occupancy	21-GP1-202		WD		
Michael Myer, Pacific NW Ntl Lab	405.2.9	Footprint	21-GP1-200		WD		
Sean Denniston, New Buildings Institute	405.3	Plant light efficacy	21-GP1-98		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.4.1	Connected power for track	21-GP1-201		D 7/09/21		
Daniel Salinas	405.4.2 (2)	Add note for Unfinished Spaces	21-GP1-144		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.4.2.2	LPA Table footnote cleanup	21-GP1-197		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.4.2.2	Space by Space Method	21-GP1-203		AS 7/09/21		
CJ Brockway, Sparklab Lighting Design	Table 405.4.2(2) footnotes / 405.2.2.1	Additional interior lighting power	21-GP1-94		AM 8/20/21		
Michael Myer, Pacific NW Ntl Lab	405.5.1	Exterior building grounds lighting	21-GP1-204		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.5.3	Exterior Lighting	21-GP1-198		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.5.3	connected exterior lighting power	21-GP1-205		WD		
						Disapproved / Incomplete	
Sean Denniston, New Buildings Institute	405.13	Electricification Readiness	21-GP1-96				
Aaron Whitlatch, Rushing	406.1	Additional energy efficiency credit requirements	21-GP1-230	30-Jul	AM 7/30/21		
Sean Denniston, New Buildings Institute	406.1	Addtl. Energy Credits Existing Bldgs	21-GP1-100		D 7/30/21		
Rahul Athalye, NORESO	C409.4.3	Energy Display	21-GP1-89		D 8/20/21		
Mike Kennedy	503.8	alterations, comply with 406	21-GP1-195	30-Jul	D 7/30/21		
Chris Little, Rushing	406.13	Efficient domestic hot water system distribution	21-GP1-216		WD		
Chris Little, Rushing	406.13	Water harvesting systems	21-GP1-219		WD		
Dan Kirschner, NW Gas Association	Table 407.3(1)	Cost & Emissions Factors	21-GP1-142		D 6/25/21		
Dan Kirschner, NW Gas Association	Table 407.3(1)	Carbon Emissions	21-GP1-141		D 6/25/21		

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Emily Salzberg, Dept of Commerce	Table 407.3(1)	updated carbon emissions factor	21-GP1-156		AS 6/25/21		
Duane Jonlin, City of Seattle	503.6	Reduce threshold for LPA compliance from 50% to 20%	21-GP1-180		AM 7/09/21		
Lisa Rosenow, Evergreen Technology Consulting	503.3.1	Roof retrofit	21-GP1-151		AS 6/25/21		
Mike Kennedy	503.6.1	Luminaire additions and alterations	21-GP1-123		WD		
Michael Fowler	App F	F101.3.2 Table	21-GP1-90		AM 6/25/21		