



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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September 6, 2021

TO: Council Members and All Interested Parties

FROM: Energy Code Technical Advisory Group

SUBJECT: Commercial Energy Code TAG Report

The Energy Code TAG (Commercial) completed their review of the proposals for the 2021 WSEC-Commercial, reviewing 161 proposed changes over 10 sessions and more than 60 hours. With an average Zoom participation around 40, this is over 2,400 volunteer hours of expert testimony and consideration, with nearly 20 industries represented as TAG members. In addition, attendees asked to help the proponent improve and align proposals outside of the formal TAG meetings which constituted many other important and substantive efforts. The following is a summary of the TAG's recommendations for Council action. Nearly all of the votes were unanimous nearly unanimous, with five receiving split votes along and some minority reports. One item was also not resolved in the TAG, and tabled so the MVE committee could decide.

The TAG agreed upon a threshold for assigning point values for Section C406, using carbon reduction (instead of energy use reduction) and adopting a 0.1% threshold for each point. This was done outside of consideration of any proposal, but it aligns with the comprehensive proposal regarding C406 (21-GP1-206). This proposal does not increase stringency in general but increases proportionally the number of points required and the number of points for each option. This rationale meant we could more fairly address the number of credits assigned to each option in the table and meant we could focus our conversation on cost and technical issues.

The TAG kept in mind the RCWs that govern our work that include goals for 70% energy code reduction by 2031 and new building carbon neutrality by the same date, as well as consideration for first cost and operational costs. Washington utilities continue to find energy efficiency as the largest, cheapest, and lowest-risk energy resource. Since efficiency in new buildings is generally cheaper than in existing buildings, the energy code is one of the most effective strategies in providing low-cost energy in our state and an important tool in addressing climate change.

The attached contains proposals in this order:

1. Unresolved, tabled for the MVE to consider
2. Passed, but not unanimous. Some contain minority opinions.
3. Passed
4. Not passed
5. Withdrawn

Preliminary Cost Data

Those proposals having a cost impact are noted in the table. Note that the majority of accepted proposals are identified as having no cost impact. These generally involve corrections, clarifications or additional options.

Code Change Proposal Summary

Total Number of Proposals:	161
Incomplete/not resubmitted:	1
Withdrawn:	20
TAG Undecided:	1
Recommended for Disapproval:	22
Recommended as Submitted:	43
Recommended as Modified:	75

Group 1 WSEC-Commercial Code Proposals - 2021

Proponent	Section	Subject	Init. Log Numbe	Economic Info	Vote/Notes	TAG Action	Committee Action	Council Action
Chris Little, Rushing	406.13	Drainwater heat recovery	21-GP1-214			Tabled; TAG did not come to consensus on language		
Jonny Kocher, RMI	403.1.4, 407, 503.4.1, 503.4.6	Space Heating Proposal	21-GP1-103	X	7/16: 14-1-0 7/23: unan. 8/27: 11-1-0; there were minority reports that were voted down on this item	AM 7/16/21 Further modified 7/23 and 8/27		
Jonny Kocher, RMI	404.2.1, 404.2.2, 406.1, 406.8, 406.9	heat pump water heating	21-GP1-136	X	11-5-0; there were minority reports that were voted down on this item	AM 8/13/21		
Reid Hart, PNNL	403.4.11.1 & 406	HVAC applications	21-GP1-206		7/30: 7-5-3 (carbon metric); 12-1-2 (0.1 metric); 6-2-6 (no cap); 8/13: 14-0-1	AM 8/13/21; Revised 8/27/21		
Michael Rosenberg Pacific NW National	407	Total Building Performance	21-GP1-70			AM 7/23/21; further revised 8/27/21		
Duane Jonlin, City of Seattle	405.7.1	Electrical receptacles at gas appliances	21-GP1-179	X	12-2-1	AM 8/13/21		
Mark Frankel, Ecotope	411, with carry over to 406, 407	RENEWABLE ENERGY	21-GP1-78	X		AS 8/27/21		
Luke Howard, Dept of Commerce	402.1.3 footnote c & 402.1.4 footnote d	CMU Walls Table	21-GP1-207	X	9-3-2	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	X	11-1-4	AS 7/16/21		
Dan Kirschner, NW Gas Association	Table 406.1 and Sections 406.8 and 406.9	Efficiency	21-GP1-140		4-9-0 (AM)	Vote for approval failed 8/27/21		
Dan Kirschner, NW Gas Association	Table 407.3(1)	Carbon Emissions	21-GP1-141		AS: 2-11-1	D 6/25/21		
Duane Jonlin, City of Seattle	402.1.1.2	Semi-heated buildings definition	21-GP1-158		10-1-0	AM 7/09/21		
Duane Jonlin, City of Seattle	402.2.8 & 9 new sections	Thermal bridging concrete balconies and fenestration framing	21-GP1-159		7-2-6	AM 8/20/21		
Henry Odum, Ecotope	403.5.11 & 403.14	Operable Openings	21-GP1-240		8-2-3	AM 8/27/21		
Lisa Rosenow, Evergreen Technology Consulting	403.10.1.1, 403.10.2	General Mech Updates to Duct Insulation	21-GP1-209		9-1-4	AM 6/25/21		
Aaron Whitlatch, Rushing	406.1	Additional energy efficiency credit requirements	21-GP1-230		9-1-4	AM 7/30/21		
Mark Frankel, Ecotope	406.1	Additional efficiency	21-GP1-146		8-1-4	AM 8/27/21		
Clarence Clipper, Centrio	202/403.1.1/404.2.2/406	Low-Carbon district energy x 3	21-GP1-121		121A: 11-0-1 (D); 121B: 8-2-2 (D); unan. (AM)	121C: 121C AM 8/27/21, the other two D 8/27/21		
Emily Salzberg, Dept of Commerce	Table 407.3(1)	updated carbon emissions factor	21-GP1-156		12-1-0	AS 6/25/21		
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, 8/27/21		
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	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		9-0-5	AM 7/16/21		
Duane Jonlin, City of Seattle	402.1.4.3	PTAC U-factors	21-GP1-160	X		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		
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		
Michael Rosenberg Pacific NW National	403.1.1 and App D	HVAC TSPR	21-GP1-69	X	12-0-1	AM 7/23/21		
Nicholas O'Neil, Energy 350	202, 403.1.3	Data Center MLC Updates	21-GP1-235			AM 8/13/21		

Group 1 WSEC-Commercial Code Proposals - 2021

Proponent	Section	Subject	Init. Log Numbe	Economic Info	Vote/Notes	TAG Action	Committee Action	Council Action
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		
Mike Kennedy	403.2.2, 406.6, 406.7	Over 150 pct Ventilation - DOAS ERV	21-GP1-188			AM 7/23/21		
Duane Jonlin, City of Seattle	403.2.3	5 HP threshold for variable flow	21-GP1-163			AM 8/27/21		
Alexander Ratcliff, PAE Consulting Engineers	403.2.5.7	Air intakes errata	21-GP1-105			AS 6/25/21		
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		
Mike Kennedy	403.3.2.4, 403.4.1.1	Packaged electric heating and cooling equipment.	21-GP1-194			AM 8/13/21		
Duane Jonlin, City of Seattle	403.3.2.4	Extend HP requirement from packaged to include split systems	21-GP1-164	X		AS 6/25/21		
Nicholas O'Neil, Energy 350	202, 403.3.4	Boiler Controls	21-GP1-139	X		AS 6/25/21		
Mike Kennedy	403.3.4.2 (new)	High capacity space heating boiler	21-GP1-133	X		AS 6/25/21		
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		
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	X		AM 7/23/21		
Henry Odum, Ecotope	403.3.5.5	DOAS Tempering	21-GP1-239			AM 8/13/21		
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		13-0-2	AM 7/30/21		
Duane Jonlin, City of Seattle	403.3.7 new section	Hydronic system max flow in piping system	21-GP1-166			AM 8/13/21		
Sean Denniston, New Buildings Institute	403.4.1	DR Thermostats	21-GP1-97	X		AM 8/13/21		
Robby Oylear	403.4.4	Part load controls	21-GP1-54		14-0-1	AS 7/30/21		
Eric Vander Mey, Rushing	403.4.11	DDC Controls	21-GP1-227			AM 8/20/21		
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	403.5	Group R2 Exclusion for Econo Exp 1	21-GP1-185		13-0-2	AS 8/13/21		
Eric Vander Mey, Rushing	403.5 Exceptions 1 and 5	Airside Economizer	21-GP1-228			AM 8/20/21		
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		
Mike Kennedy	403.7.1	DCV	21-GP1-190	X		AM 8/13/21		
Duane Jonlin, City of Seattle	403.7.5	Clarify that "garage" ventilation include repair garages	21-GP1-169			AM 6/25/21		
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		
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		
Nicholas O'Neil, Energy 350	403.7.7.1.3	Kitchen DCV	21-GP1-236			AM 8/13/21		
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	X		AM 7/23/21		
Howard Ahern, Airex MFG.	403.10.3.1	Protection of piping insulation	21-GP1-155			AM 6/25/21		
Eric Vander Mey, Rushing	403.10.3	Refrigerant piping clarifications	21-GP1-226			AM 8/20/21		
Sean Denniston, New Buildings Institute	403.15	Indoor Horticulture Dehumidification	21-GP1-95	X		AM 8/13/21		
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		

Group 1 WSEC-Commercial Code Proposals - 2021

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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		
Sean Denniston, New Buildings Institute	404.14	DR Water Heaters	21-GP1-99	X		AM 8/27/21		
Heli Ojamaa, Blanca Lighting Design	405.2	Interior Lighting Allowance	21-GP1-76			AM 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	LLCC 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		
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		
Sean Denniston, New Buildings Institute	405.3	Plant light efficacy	21-GP1-98			AM 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		8/20: 14-0-1; revised 8/27	AM 8/27/21		
Michael Myer, Pacific NW Ntl Lab	405.5.1	Exterior building grounds lighting	21-GP1-204	X		AM 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.5.3	Exterior Lighting	21-GP1-198	X		AM 7/09/21		
Nicholas O'Neil, Energy 350	202, 405.13	UPS efficiency for computer rooms	21-GP1-137			AS 8/20/21		
Austin Bonnes, Rushing	406.1	Heat pump dryers	21-GP1-231		(one abstention)	AM 8/27/21		
Chris Little, Rushing	406.8 and 406.9	clarification of service water heat pump efficiencies	21-GP1-212			AM 8/27/21		
Alexander Ratcliff, PAE Consulting Engineers	406.12	Enhanced Commercial Kitchen equipment	21-GP1-106			AS 8/27/21		
Reginald Christor, Rushing	406.13	High performance temperature maintenance system	21-GP1-213			AM 8/27/21		
Chris Little, Rushing	406.13	High efficiency circulation systems	21-GP1-215			AM 8/27/21		
Chris Little, Rushing	406.13	Low flow showerheads for R-1 and R-2 occupancies	21-GP1-218			AM 8/27/21		
					122A	AM 8/27/21		
Clarence Clipper, Centrio	202/407.3/ 404.2.1	Low-Carbon district energy x 2	21-GP1-122		122B 8/20: 13-0-4	AM 8/27/21		
Doug Smith Meng Analysis	408	Lower Commissioning exception thresholds	21-GP1-101			AM 8/20/21		

Group 1 WSEC-Commercial Code Proposals - 2021

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Aaron Tanner, Rushing	409.4.1 through 409.4.3	Consumption rate and display clarifications	21-GP1-223			AM 8/27/21		
Eric Vander Mey, Rushing	409.1	Source vs End use metering exceptions	21-GP1-222			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		
Mike Kennedy	410	Unscramble refrigeration language	21-GP1-128			AM 8/27/21		
Lisa Rosenow, Evergreen Technology Consulting	411.1, 502.1, 503.1, 505.1	Solar Readiness Provision	21-GP1-115			AS 8/20/21		
Gavin Tenold, WA Solar Energy Industries Assoc	202, 406, 407, 411	Offsite Renewables	21-GP1-120			AM 8/27/21		
Mike Kennedy	412	COMPRESSED AIR	21-GP1-193	X		AM 8/20/21		
Lisa Rosenow, Evergreen Technology Consulting	501.2, 503.2, 503.3, 505.1	Change in space conditioning	21-GP1-114			AM 8/27/21		
Sean Denniston	502, 503, new 506	Historic Buildings	21-GP1-102			AS 8/27/21		
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			AS 8/27/21		
Lisa Rosenow, Evergreen Technology Consulting	Table 503.4	PTHP PTAC	21-GP1-183			AS 8/27/21		
Duane Jonlin, City of Seattle	503.6	Reduce threshold for LPA compliance from 50% to 20%	21-GP1-180	X		AM 7/09/21		
Lisa Rosenow, Evergreen Technology Consulting	503.3.1	Roof retrofit	21-GP1-151			AS 6/25/21		
Michael Fowler	App F	F101.3.2 Table	21-GP1-90			AM 6/25/21		
Mike Baranick, Hargis Engineers	503.8 (new section)	compliance path for building alterations	21-GP1-118			D 8/27/21		
Michael Myer, Pacific NW Ntl Lab	405.4.1	Connected power for track	21-GP1-201			D 7/09/21		
Alexander Ratcliff, PAE Consulting Engineers	406	Fault Detection and Diagnostic System	21-GP1-107			D 8/27/21		
Chelsea Guenette, PAE Consulting Engineers	406	DOAS- HR	21-GP1-109			D 8/27/21		
Aaron Whitlatch, Rushing	406	Lighting reduction	21-GP1-210			D 8/27/21		
Sean Denniston, New Buildings Institute	406.1	Addtl. Energy Credits Existing Bldgs	21-GP1-100			D 7/30/21		
Austin Bonnes, Rushing	406.1	Radiant heating and cooling	21-GP1-232			D 8/27/21		
Austin Bonnes, Rushing	406.1	Temp set points	21-GP1-233			D 8/27/21		
Aaron Whitlatch, Rushing	406.3	Reduced lighting dwelling units	21-GP1-210			D 8/27/21		
Rahul Athalye, NORESO	406.4.13, 406.4.14	Enhanced Kitchen and Laundry equipment in accordance with Section 406.13 and 406.14	21-GP1-88			D 8/27/21		
Aaron Whitlatch, Rushing	406.7	High performance dedicated outdoor air system (DOAS)	21-GP1-211			D 8/27/21		
Anton Leitner, Rushing	406.13	Appendix M plumbing sizing for DCW/DHW	21-GP1-217		(one abstention) This provision is included in revised proposal 206	D 8/27/21		
Dan Kirschner, NW Gas Association	Table 407.3(1)	Cost & Emissions Factors	21-GP1-142		D: 13-0-1	D 6/25/21		
Rahul Athalye, NORESO	C409.4.3	Energy Display	21-GP1-89			D 8/20/21		
Mark Frankel, Ecotope	501, New 501.7	Building Energy Performance EUI	21-GP1-79		16-0-1	D 8/27/21		
Mike Kennedy	503.8	alterations, comply with 406	21-GP1-195			D 7/30/21		
Sean Denniston, New Buildings Institute	405.13	Electricification Readiness	21-GP1-96			Disapproved / Incomplete		
Mike Baranick, Hargis Engineers	403.1.1	HVAC TSPR	21-GP1-119			WD 7/23/21		
Mike McGivern	403.2.3	DDC Systems	21-GP1-008			WD 8/02/21		
Mark Frankel, Ecotope	403.3.1.1	Hot Water Coil Capacity	21-GP1-147			Withdrawn after modification of 052		
Mike Kennedy	403.3.5	DOAS Exception modifications	21-GP1-189			WD 7/15/21		
Lisa Rosenow, Evergreen Technology Consulting	403.5	PTHP Econo Exp for Group R1 and I1	21-GP1-184			Withdrawn 8/13/21		
Mike Kennedy	403.8.1	DOAS Allowable fan motor horsepower	21-GP1-187			WD 7/23/21		
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		
Robby Oylear	403.10.4	Insulation of refrigerant piping	21-GP1-53			WD By proponent 6/25/21		
Duane Jonlin, City of Seattle	403.11	Extend radiant heating req't to include unheated spaces	21-GP1-172			WD 8/20/21		
Mike Kennedy	405.2	Lighting controls- LLLC	21-GP1-124			WD 7/09/21		
Michael Myer, Pacific NW Ntl Lab	405.2.7.3	Parking Occupancy	21-GP1-202			WD		

Group 1 WSEC-Commercial Code Proposals - 2021

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Michael Myer, Pacific NW Ntl Lab	405.2.9	Footprint	21-GP1-200			WD		
Michael Myer, Pacific NW Ntl Lab	405.5.3	connected exterior lighting power	21-GP1-205			WD		
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		
Eric Vander Mey, Rushing	406.2	Building areas and occupancies	21-GP1-221			WD 8/27/21		
Eric Vander Mey, Rushing	406.5	On-site renewable energy.	21-GP1-220			WD 8/27/21		
Mike Baranick, Hargis Engineers	407.2 & 407.3	Mandatory Requirements	21-GP1-117			WD 7/23/21		
Mike Kennedy	503.6.1	Luminaire additions and alterations	21-GP1-123			WD		