ighting, Motor, and Electrical Permit Checklist 2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R **Project Title:** 7/27/2020 1 - Safeway Kingston Date The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions Applicability Location in **Building Department** (yes,no,na) Code Section Component Compliance information required in permit documents Documents Notes LIGHTING CONTROLS Lighting controls, For all lighting fixtures, indicate lighting control method on plans YES C405.2 general for spaces and lighting zone(s) served, or exception taken Indicate on plans all fixtures provided with LLLC in lieu of Luminaire level NA C405.2 lighting controls C405.2 lighting controls; provide description of control (LLLC) capabilities and performance parameters For permanently installed lighting fixtures in dwelling units, indicate lighting control method on plans for spaces and Lighting in dwelling NΑ C405.1 units lighting zone(s) served, or demonstrate compliance with high efficacy exception C405.2.3 Indicate on plans the method of manual lighting control (whether C405.2.1.1 combined with occupancy sensor, automatic light reduction, YES C405.2.2.2 Manual controls daylight responsive or specific application controls), location of C405.2.4 manual control device and area or specifice application it serves C405.2.5 C405.2.2.1 Indicate on plans which method of manual 50% lighting load Manual interior NA C405.2.2.2 reduction is provided, or whether lighting load is reduced via lighting controls C405.2.3 occupancy sensors or daylight responsive controls Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) Method of automatic for all lighting zones; YES C405.2.2 shut-off control Indicate locations where automatic shutoff is provided by other methods (occupancy sensor or digital timer switch) or which time switch control exception applies Indicate on plans the spaces served by occupancy sensors; C405.2.1 Occupancy sensor Indicate whether occupancy sensor controls are configured to YES C405.2.1.1 controls be manual-on, automatic 50%-on, or serve a space eligible for automatic 100%-on per exception Occupancy sensor Indicate aisleways and open areas in warehouse spaces NA C405.2.1.2 controls provided with occupancy sensor controls that reduce lighting warehouses power by 50% Indicate required digital timer switch control function when NA C405.2.6 Digital timer switch control is used Indicate locations of override switches on plans and the lighting Automatic time NΑ C405.2.2.1 switch controls zone(s) served, include area sq. ft. Indicate primary and secondary sidelight daylight zone areas on plans, include sq. ft.; Indicate toplight daylight zone areas on plans, include sq. ft.; C405.2.4.2 Daylight zones -NA For small vertical fenestration assemblies (rough opening less C405.2.4.3 Sidelight and toplight than 10 percent of primary daylight zone) where daylight responsive controls are not required, provide fenestration area to daylight zone calculation(s) Indicate on plans lighting zone(s) served by daylight responsive Identify sidelight and toplight daylight zones that are not provided with daylight sensing controls and the exception(s) Daylight responsive that apply; NΑ C405.2.4 controls Indicate on plans the lighting load reduction method continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power; Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone Additional controls -Identify spaces and lighting fixtures on plans that require NA C405.2.5 Specific application specific application lighting controls per this section lighting controls Indicate on plans that display and accent lighting, and display case lighting are controlled independently from both general C405.2.5 -Display and accent

Permit Number: 20-03507

area lighting and other lighting applications within the same

Indicate manual and automatic lighting control method

NA

Items 1&2

lighting

space:

Lighting, Motor, and Electrical Permit Checklist, Pg. 2 2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1

Revised August 2016

Project Title	:	1 - Safeway Kingsto	n	Date	7/27/2020
			permit application for compliance with the lighting, motor, and el	ectrical requirements	s in the
pplicability yes,no,na)	Code Section	Code, Commercial Pro Component	visions. Compliance information required in permit documents	Location in Documents	Building Departmen
NA	C405.2.5 - Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room		
NA	C405.2.5 - Item 4	Supplemental task lighting	Indicate method and location of automatic shut-off vacancy control for supplemental task lighting, including under-shelf or under-cabinet lighting		
NA		Lighting for non- visual applications	Indicate on plans eligible non-visual lighting applications, include sq. ft. area of each lighting control zone;		
	C405.2.5 - Item 5		Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space; Indicate method of manual lighting control and applicable automatic lighting control.		
NA	C405.2.5 - Item 6	Lighting equipment for sale or demonstration	automatic lighting control Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space; Indicate method of manual lighting control and applicable		
	C405.2.5 -	Means of egress	automatic lighting control Identify on plans egress fixtures that function as both normal and emergency means of egress illumination; Provide calculation of lighting power density of total egress lighting;		
NA	Item 7	lighting	If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-of during unoccupied periods;	f	
NA	C405.2.7	Exterior lighting controls	Indicate method of automatic shut-off control Indicate on exterior lighting plans and fixture schedules the automatic lighting control method, control sequence, and locations served; For building façade and landscape lighting, indicate automatic controls shut off lighting as a function of dawn/dusk and fixed opening/closing time; For all other exierior lighting, indicate automatic controls shut of	f	
			lighting as a function of available daylight; include control sequence that also reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor		
NA	C405.5.1	Exterior building grounds lighting controls	For building grounds fixtures greater than 100 watts, indicate of plans whether fixtures have efficacy greater than 80 lumens or; are controlled by motion sensor, or are exempt lighting per C405.5.2		
NA	A C405.2.5	Area controls - Master control switches and circuit power limit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch; Verify that no 20 amp circuit controlled by a single switch or		
			automatic control is loaded beyond 80%		
NA	C406.4	Enhanced digital lighting controls	To comply with additional efficiency package option, indicate or plans all interior lighting fixtures that are individually addressed and provided with continuous dimming, or exception taken;		
			Include calculation of percent total installed interior lighting power that is configured with required enhanced lighting contro functions (min 90% to comply with additional efficiency package option)		
NA	C405.13 C408.3	Lighting system functional testing	If claiming lighting system commissioning exemption provide supporting calculation; Identify applicable commissioning documentation requirements		
			per Section C408 or eligibility for exception; Provide written procedures for functional testing of all automatic controls and describe the expected system response	;	

Permit Number: 20-03507

			ectrical Permit Checklist, Pg. 3		LTG-CHK
		•	for Commercial Buildings including R2, R3, R4 over 3 stories and all R1	Data	Revised August 20
Project Title		1 - Safeway Kingston		Date	7/27/2020
		code, Commercial Prov	permit application for compliance with the lighting, motor, and elepions.	ectricai requirement	s in the
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Departmer Notes
NTERIOF	LIGHTING	POWER & EFFI	CACY		•
			Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture;	E1.1	
YES	C405.4.1 C405.4.1	Total connected interior lighting power	Identify spaces eligible for lighting power exemption on plans and in compliance forms; indicate the exception applied;	E1.1	
	C405.4.2		Identify lighting equipment eligible for lighting power exemption in fixture schedule and in compliance forms; indicate the exception applied;	E1.1	
			Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently	E1.1	
NA	C405.3	Exit signs	Indicate location of exit signs on plans and rated watts per fixture in lighting fixture schedule (maximum 5 watts per fixture)		
NA	C405.1	Lighting in dwelling units - lamp efficacy	If high efficacy exception is applied to permanently installed lighting fixtures in dwelling units, indicate in lighting fixture schedule if lamps in fixtures are high efficacy per R404.1. Calculate percentage of fixtures with high efficacy lamps in project (min 75% to comply with exception).		
NA	C406.3	Reduced lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency package option indicate in lighting fixture schedule if lamps in fixtures have efficacy rating of 60 lumens per watt or more. Calculate percentage of fixtures with lamps that have this efficacy rating (min 95% to comply with option).		
	Lighting Pow	er Calculation - Indic	ate compliance path taken	I.	
	C405.4.2.1	Building Area Method	Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans		
	C405.4.2.2	Space-By-Space Method	Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage. Identify locations o space types on plans, including retail display areas, lobby art & exhibit display areas, and ceiling heights as applicable	f	
YES	C406.3	Reduced lighting power density	To comply with additional efficiency package option, demonstrate in compliance forms that total connected interior lighting wattage is 75% less than the total maximum allowed lighting wattage via Building Area Method or Space-By-Space Method	E1.1	
XTERIO	R LIGHTING	G POWER & EFF	ICACY		
NA	C405.5.2	Total connected exterior lighting power	Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture; Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; indicate exceptior applied;		
			Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting; include exception claimed for each fixture or group of fixtures under exception category		
NA	Table C405.5.2(1)	Exterior lighting zone	Indicate building exterior lighting zone as defined by the AHJ		
NA	C405.5.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts that are complying based on efficacy, indicate rated lamp efficacy (in lumens per watt) in fixture schedule		
NA	C405.5.2	Exterior lighting power calculations	Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed		

Permit Number: 20-03507

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions. Applicability Location in Building Department (yes,no,na) Code Section Component Compliance information required in permit documents Documents Notes	Lighting, Motor, and Electric Energy Code Compliance Forms of the Compliance F			3 3 , 3,		Revised August 201
NA C405.9.1 Elevator cabs Elevator cabs Elevator sabs Elevator sab	Project Title: 1 - Safeway Kingsto		1 - Safeway Kingsto	n	Date	7/27/2020
NA C405.9.1 Elevator cabs Elevator cab ventilation fans do not exceed 0.33 watts per cfm; Indicate automatic controls tat de-energize lighting and ventilation fans when elevator is stopped and unocoupied for a period of 15 minutes or more Elevator cabs Elevator cab ventilation fans when elevator is stopped and unocoupied for a period of 15 minutes or more Elevator cabs Elevator cabs Elevator cabs Elevator cab ventilation fans when elevator is stopped and unocoupied for a period of 15 minutes or more Elevator cabs					ectrical requirement	s in the
NA		Code Section	Component	Compliance information required in permit documents		Building Departmen Notes
NA C405.9 Electrical tranformers indicate transformer size, efficiency, or exception taken Dwelling unit electrical energy consumption Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate hp, rpm, rated efficiency, or exception applied For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt; Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm; Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled and uncontrolled and uncontrolled of automatic control for each controlled receptable zone is by occupant sensor or	MOTORS	& TRANSF	ORMERS			
NA C405.7 electrical energy consumption NA C405.8 Electric motor efficiency Electric motor efficiency Electric motor efficiency Elevator cabs Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Indicate electrical plans in each space in which they are required; include receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled and uncontrolled and uncontrolled receptables on electrical plans in each space in which they are required; include receptables on electrical plans in each space in which they are required; include receptables on electrical plans in each space in which they are required; include receptables	NA	C405.6	Electrical tranformers	1 /		
NA C405.8 Electric motor efficiency motor schedule on electrical plans; indicate hp, rpm, rated efficiency, or exception applied For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt; Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm; Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacles configuration such as spacing between controlled and uncontrolled, duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or	NA	C405.7	electrical energy			
For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt; Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm; Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Controlled receptacles Controlled receptacles Controlled receptacles on leactrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or	NA	C405.8		motor schedule on electrical plans; indicate hp, rpm, rated		
NA C405.9.1 Elevator cabs Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use Indicate ell one-way down or reversible escalators are provided with a variable frequency regenerative drive Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled and unco	NA	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt;		
Period of 15 minutes or more C405.9.2 Escalators and moving walks Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use				not exceed 0.33 watts per cfm; Indicate automatic controls that de-energize lighting and		
NA C405.9.2 Escalators and moving walks automatic controls are configured to reduce operational speed to the minimum permitted when not in use NA C405.9.3 Regenerative drive Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled and uncontrolled, duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or				period of 15 minutes or more		
NA C405.9.3 Regenerative drive Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or	NA	C405.9.2		automatic controls are configured to reduce operational speed		
NA C405.10 Controlled receptacles Controlled receptacles Controlled receptacles Date of plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or	NA	C405.9.3	Regenerative drive	Indicate all one-way down or reversible escalators are provided		
each controlled receptable zone is by occupant sensor or	NA	C405.10		plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc;		
				each controlled receptable zone is by occupant sensor or		
f "no" is selected for any question, provide explanation:	f "no" is	selected fo	r any question, p	provide explanation:		

Permit Number: 20-03507

End of Lighting, Motor & Transformer Permit Documents Checklist