Appendix 8A Project Summary for Energy Modelling

The following table outlines the minimum information necessary to describe the facility's design as part of determining energy performance compliance. The default values to be used in accordance with the Modelling Guidelines have been highlighted for the purposes of transparency and consistency across all proponents.

Project Description	
Above Grade	
Stories	
Floor Area (m²)	
Below Grade	
Stories	
Floor Area (m²)	

Energy Model Description (if applicable)	
Above Grade	
Floor Area (m²)	
Below Grade	
Floor Area (m²)	
Weather File	CAN_BC_VICTORIA-INTL-A_1018621_CWEC
Software	*including version and build*
Schedules	NECB Schedule D

Envelope	**As Designed**	**NECB 2015 Compliant Design**	**Source / Notes**
Exterior Walls	**Identifier** Assembly description Nominal: R-__ Effective: R-__ Effects of thermal bridging to be accounted for in accordance with the Energy Modelling Guidelines	**NECB 2015 Prescriptive Value** Effective: R-__ Derating of prescriptive thermal performance is not to be done for the purposes of this analysis	*Provide for each significant assembly*
Exterior Roof	**Identifier** Assembly description Nominal: R-__ Effective: R-__ Effects of thermal bridging to be accounted for in accordance with the Energy Modelling Guidelines	**NECB 2015 Prescriptive Value** Effective: R-__ Derating of prescriptive thermal performance is not to be done for the purposes of this analysis	*Provide for each significant assembly*
Exposed Floors / Soffits	**Identifier** Assembly description Nominal: R-__ Effective: R-__ Effects of thermal bridging to be accounted for in accordance with the Energy Modelling Guidelines	**NECB 2015 Prescriptive Value** Effective: R-__ Derating of prescriptive thermal performance is not to be done for the purposes of this analysis	*Provide for each significant assembly*
Opaque Doors	**Identifier** Assembly description Nominal: R-__ Effective: R-__ Effects of thermal bridging to be accounted for in accordance with the Energy Modelling Guidelines	**NECB 2015 Prescriptive Value** Effective: R-__ Derating of prescriptive thermal performance is not to be done for the purposes of this analysis	*Provide for each significant assembly*

Glazing Systems	**Fixed / Curtain Wall** Assembly description CoG: U-__, SHGC ___ Effective (NFRC): U-__, SHGC __	**NECB 2015 Prescriptive Value** Effective (NFRC): U-__, SHGC __	*Provide for each significant assembly*
	Operable Assembly description CoG: U-__, SHGC ___ Effective (NFRC): U-__, SHGC __	**NECB 2015 Prescriptive Value** Effective (NFRC): U-__, SHGC __	*Provide for each significant assembly*
	Doors Assembly description CoG: U-__, SHGC ___ Effective (NFRC): U-__, SHGC __	**NECB 2015 Prescriptive Value** Effective (NFRC): U-__, SHGC __	*Provide for each significant assembly*
	Window-to-Wall Ratio WWR ___%	**NECB 2015 Prescriptive Value** WWR ___%	-
Passive Cooling Features		-	*example: shading devices*

Infiltration Rate	0.20 Lps/m² of gross wall area	0.20 Lps/m² of gross wall area	*Default value for modelling purposes per the Energy Modelling Guidelines* *to be updated based on the post construction air tightness testing results*

Lighting	As Designed		NECB 2015 Compliant Design		Source / Notes
	Space Type	**Load**	**Space Type**	**NECB 2015 Load**	
Interior	List each individual space type	___ W/m²	List each individual space type	___ W/m²	
Exterior	Total: __ W		**NECB 2015 Prescriptive Value** Total: __ W		
Lighting controls			**NECB 2015 Prescriptive Controls**		*provide a description of the lighting control strategies (locations and types, interior and exterior)*

HVAC	As Designed	NECB 2015 Compliant Design	Source / Notes
Area Served 1 per major system	**System description, including as applicable:** Heating: source and efficiency Cooling: source and efficiency Fans: capacity and power Terminal Heating: source and efficiency Ventilation: air flow rates Heat Recovery: capacity and efficiency Control Schemes: as applicable	**NECB 2015 Part 8** To be generated as if the proposed design utilizes natural gas as its primary heating fuel.	

Central Plant	As Designed	NECB 2015 Compliant Design	Source / Notes
Heating Plant	**System description, including as applicable:** Heat source: capacity and efficiency Pumps: power and efficiency Control Schemes: as applicable	**NECB 2015 Part 8** To be generated as if the proposed design utilizes natural gas as its primary heating fuel.	
Cooling Plant	**System description, including as applicable:** Cooling source: capacity and efficiency Pumps: power and efficiency Control Schemes: as applicable		

Domestic Hot Water	**System description, including as applicable:** DHW Source: capacity and efficiency Pumps: power and efficiency Control Schemes: as applicable		

Plug & Process	As Designed		NECB 2015 Compliant Design	Source / Notes
	Space Type	**Load**		
General Plug Loads	List each individual space type	7.5 W/m²	as As Designed	*Default value for modelling purposes per the Energy Modelling Guidelines*
Elevators	__ × 3.0 kW / elevator		as As Designed	*Default value for modelling purposes per the Energy Modelling Guidelines*
Domestic Hot Water	0.0016 Lps / person		as As Designed	*Default value for modelling purposes per the Energy Modelling Guidelines*
Others as applicable			as As Designed	