

CONFIRMATION OF NEIGHBOURHOOD ENERGY CONNECTIVITY REQUIREMENTS

- Notes:
- (i) This letter must be submitted before issuance of a *building permit*.
 - (ii) This letter must be signed by the *registered professional* of record who is a member of either the Architectural Institute of BC or the Association of Professional Engineers and Geoscientists of BC.
 - (iii) In this letter the words in italics have the same meaning as the Vancouver Building By-law.

To: City of Vancouver, City Engineer

Re:

Name of Project (Print)

Address of Project (Print)

Legal Description of Project (Print)

The undersigned hereby gives assurance that the design of components of the project for the building permit as outlined below substantially comply with the Design Guidelines for Neighbourhood Energy Connectivity as specified below.

1. NEIGHBOURHOOD ENERGY COMPATABILITY REQUIREMENTS

Initial each item below.

- _____ 1.1 The building HVAC system has been designed in accordance with the design guidelines outlined in the City of Vancouver document titled *Neighbourhood Energy Connectivity Standards - Design Guidelines*
- _____ 1.2 The building HVAC system heats 100% of the space heating load and 100% of the domestic hot water load of the development via a hot water hydronic system.
- _____ 1.3 The building HVAC system design does not incorporate features that increase the difficulty of efficiently integrating the building HVAC system with a hot water energy utility system (e.g. no roof-top gas-fired air handling units or electric baseboard heaters).
- _____ 1.4 All heat producing equipment (e.g. boilers, heat pumps, heat recovery chillers, domestic hot water heaters, etc.), if provided, are located in a central mechanical room located on the parkade or ground level.
- _____ 1.5 The building HVAC system design does not require a supply temperature of greater than 65°C when the outdoor ambient temperature is equal to or greater than 0°C and 70°C at design outdoor ambient temperature.

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- _____ 1.6 The space heating, ventilation, and domestic hot water systems have return temperatures below 45°C in the summer design condition and 50°C in the winter design condition.
- _____ 1.7 The building domestic hot water system design does not require a supply temperature of greater than 60°C.
- _____ 1.8 The space heating and ventilation system includes a fully variable flow operation with variable speed pumps and 2-way control valves at all heating terminal units and heat exchangers.
- _____ 1.9 The space heating, ventilation, and domestic hot water systems do not include any electrical resistive elements.

2. THERMAL ENERGY USAGE ESTIMATES

Complete the required sections below.

Table 1 - Anticipated Monthly Thermal Energy Usage							
Month	Space Heating (MW.h)	DHW Heating (MW.h)	Space Cooling (MW.h)	Month	Space Heating (MW.h)	DHW Heating (MW.h)	Space Cooling (MW.h)
January				July			
February				August			
March				September			
April				October			
May				November			
June				December			
				Annual Total			

3.2. Describe any annual thermal energy usage other than space heating, space cooling, and domestic hot water heating:

3.3. Peak Space Heating Demand: _____ MW

3.4. Peak DHW Demand: _____ MW

3.5. Peak Space Cooling Demand: _____ MW

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3. CERTIFICATION

I certify that I am a *registered professional* as defined in the British Columbia Building Code.

Registered Professional of Record's Name (Print)

Address (Print)

Phone No.

(Professional's Seal and Signature)

Date

I am a member of the firm _____
and I sign this letter on behalf of the firm. (Print name of firm)

Note: The above letter must be signed by a *registered professional of record*, who is either

- (a) a person who is registered or licensed to practice as an architect under the Architects Act, or
- (b) a person who is registered or licensed to practice as a professional engineer under the Engineers and Geoscientists Act.