

Metering Guidelines

Please ensure the following are met before requesting meter installation:

ELECTRIC METERING REQUIREMENTS:

- The Metering Inspection & Declaration form is a quick reference only. All metering installations must be constructed to BC Hydro's Requirements and Standards:
 - Requirements for Secondary Voltage Revenue Metering
 - ES54 Underground Civil Standards

Find the latest versions at bchydro.com/DistributionStandards

REQUIRED FORMS AND SCHEDULING:

- Have your electrician complete and return this Metering Inspection & Declaration form to your BC Hydro Distribution Designer.
- Upon receiving the Metering Inspection & Declaration form, we'll complete a single site inspection to confirm that the requirements are met.
- Your electrician must accompany the Designer during the inspection to verify the inspection items.
- Ensure that the **Application for BC Hydro Account form** is submitted to us along with this Metering Inspection and Declaration form to setup individual billing accounts.
- The project site must have all unit meters ready for installation at the same time.
- Once we approve the project site for metering, our meter technician will schedule a date for meter installations with your electrician.

Note: We'll require a minimum of 3 weeks' notice before occupancy for our site inspection and meter installation.

TEMPORARY MASTER METER:

- Where a TMM is installed, it won't be removed until all meters for individual units or areas are installed.
- The TMM may either be converted to a rebate meter (if applicable), or removed.
- Your electrician is responsible for removing our CT's and PT's for the TMM, and restoration of any associated work.
- An outage during regular working hours is required to facilitate removal.

CALL BACK CHARGES:

- If our crews are unable to install or remove meters due to deficiencies, a **service connection call-back charge** may apply for a return visit.

Note: Call-back charges are only issued when deficiencies noted on this Metering Inspection and Declaration form haven't been corrected before our meter installation.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR BC HYDRO DISTRIBUTION DESIGNER.

Metering Inspection & Declaration

	Project:		Site location:	
For BCH use only	Design #:	W/O & task #:		Gateway ESO #:
	Designer:	Phone number:		Email:

	Electrician use		For BCH use only		Electrician use***
	Complete	N/A	Pass	Fail	Initial
1. Site access & identification	Complete	N/A	Pass	Fail	Initial
a. Key fob + keys for permanent access to building and electrical room(s) ready (3.3*)					
b. Sufficient lighting with switch by entrance for electrical room(s) and meter closet(s) (3.4*)					
c. Permanent address & suite no's on doors (4.4f*)					
d. Working elevators (hi/lo-rise multi-meter installs)					
e. Energized outlet or light in each unit associated to a meter					
f. Laminated one-line diagram in main electrical room					
g. Permanent label identifying electrical room					
Notes (for BCH use only):					
2. Meter centers	Complete	N/A	Pass	Fail	Initial
a. Min/max heights [650 mm MIN /1800 mm MAX] (6.6*)					
b. Suite numbers labelled on each socket (4.4f*)					
c. Sufficient clearance from meter socket cover to closed door [250mm] (4.4g*)					
d. Surplus meter positions [max 1] (4.4.1*)					
e. Spare meter positions w/ clear covers (4.4.2*)					
f. Meter stack(s) are certified in accordance to CSA Standard C22.2 No 229 switching and metering centres (4.4*)					
Notes (for BCH use only):					
3. Conduit and service entrance requirements	Complete	N/A	Pass	Fail	Initial
a. Concrete bldg range ext conduit (3.2*)					
b. Conduit size, type, length, bends & string (5.8*)					
c. Secondary terminations, wireway dimensions, and cable supports (ES54 S2-O1**)					
Notes (for BCH use only):					

	Electrician use		For BCH use only		Electrician use***
	Complete	N/A	Pass	Fail	Initial
4. Self-contained metering					
a. Neutral is bonded (3.10b Table Note 2*)					
b. Neutral terminal on 5-jaw socket at 9 o'clock (4.1c*)					
c. Line & load conductors not crossed (4.1g*)					
d. Isolated neutral for 200A or less, 3 Ph, load side (cold) meter location (3.10*)					
e. Bonded neutral for 200A or less, 3 Ph, line side (hot) meter location (3.10*)					
Notes (for BCH use only):					
5. Service & instrument transformer metering					
a. Neutral is isolated (3.10b Table Note 2*)					
b. Enclosure w/o other devices/connection (5.3.2, 5.4.2*)					
c. Enclosure close to disc & meter socket (5.3.2, 5.4.2*)					
d. Hi polarity marks (5.2.1 to 5.2.6*)					
e. Isolated block [3 Ph only] (5.2.3 to 5.2.6*)					
f. Built to standards/approved layout (6.7, 6.9, 6.10*)					
g. Outdoor enclosure weatherproof, pad-lockable (5.3.2*)					
h. Back-energization potential disconnect (5.4.2e*)					
i. CT meter base installed on plywood. Ref (6.17*) for dimensions.					
j. Correct size CT cabinet installed horizontally at appropriate height (vertical installations require BC Hydro Field Metering approval) (6.10*)					
k. CT's and isolated neutral installed neatly inside CT cabinet (5.6 e/f*)					
l. Min 2/O AWG copper ground for CT compartments located within a unit substation with high voltage (greater than 750V) (5.7.2*)					
m. Isolated neutral required from main electric room to all sub electric rooms, including rooms with transformers. (5.2*)					
n. Grounding Bus and Stud (ES54 S2-O1.03**)					
o. Provisions for the removal of CT's and PT's for temporary master meter(s).					
p. Fire pump(s) over 67 h.p. (50kW) metered with transformer type metering using 'donut' or 'window' style CT's only (5.6.1*)					
q. Main service protective device meets or exceeds interrupting capacity requirements (ES54 SO-O4 2.1**)					
Notes (for BCH use only):					

* Requirements for Secondary Revenue Metering

** ES54 Underground Civil Standards

*** To be initialed after noted deficiencies have been corrected

