

## 1.0 **GENERAL**

### 1.1 **Related UBC Guidelines**

- .1 Division 26

### 1.2 **Coordination Requirements**

- .1 UBC Energy & Water Services
- .2 UBC *Facilities Electrical* (Vancouver)
- .3 UBC Facility Management (Okanagan)

### 1.3 **Description**

- .1 UBC seismic requirements for Electrical Equipment.

## 2.0 **MATERIALS AND DESIGN REQUIREMENTS**

### 2.1 **General**

- .1 Submit a detailed and sealed report from Structural Engineer of record who shall also ensure the specified restraint system has been installed.
- .2 All electrical equipment shall be seismically secured in compliance with BC Building Code.
- .3 All secondary distribution transformers shall incorporate vibration isolation reviewed and approved by the structural engineer.

### 2.2 **Transformer and Unit Substation Seismic Support**

- .1 The Substation Manufacturer shall have a Seismic Engineer design and select, the seismic restraint system.
- .2 Structural Engineer of record shall ensure the floor is sufficiently thick for the required bolting and that the specified restraint system has been installed.
- .3 For substations located on grade on slab, mount core and coil assembly on bridge bearing neoprene Super 'W' pads, and provide hemi grommets for each bolting location designed to suit system. Alternatively, if substation is located on a suspended floor above grade, mount core and coil assembly on Lo-Rez spring isolators designed to suit system and provide separate seismic snubbers for use with springs.
- .4 Supply chemical bolts for securing the transformer.
- .5 Submit bolting requirements for all substation cubicles.
- .6 Acceptable manufacture of seismic restrain system is Mason Industries.
- .7 Provide flexible braid connections at transformer line and load connections. Cable connections are not acceptable.

\*\*\*END OF SECTION\*\*\*