1.0 GENERAL

1.1 Related UBC Guidelines

.1 Section 26 05 06 Standard Drawings

1.2 Coordination Requirements

.1 UBC Building Operations Electrical Technical Support (Vancouver)
.2 UBC Energy and Water Services (Vancouver)
.3 UBC Facility Management (Okanagan)

2.0 MATERIAL AND DESIGN REQUIREMENTS

2.1 Labeling Requirements

.1 Feeder labels to be installed around feeders at cable heads, stress cones, manholes, pull pits, etc. Refer to Standard Drawing E4-1.

.2 Feeders revised from existing circuit arrangements shall be relabeled at all ‘downstream’ locations such as manholes, pull pits and building switchgear.

.3 Engraved lamacoid nameplates with the name of the load shall be installed on breakers or switches at the switchgear cubicles and elsewhere where called for on the drawings.

.4 Nameplates shall be securely fastened and screwed or riveted.

.5 Exterior cubicle nameplate dimensions shall be engraved brass 4" x 1 ½" black lettering.

2.2 Labeling General

.1 Labelling is required for any electrical equipment rated at 20kW and above.

.2 Junction Boxes

.1 Junction boxes in visible areas shall be labeled with machine printed material. The label(s) shall consist of Panel #, Cct #(s), FA zone #, etc.

.3 Disconnects

.1 Disconnects (Non Fused/Fused/Breaker) shall have a firmly affixed lamacoid label indicating the following (as applicable):
   1. Downstream device tag #
   2. Disconnect maximum rating
   3. Fuse/Breaker rating

.2 If a VFD is upstream of the disconnect an additional label must be placed stating the following: Disconnect shall not be operated until motor has been verified to be disengaged at the VFD.

.4 Labels Outside

.1 Labels located outside shall be of the engraved lamacoids type and be affixed with UV or corrosion resistant ties.
.5 Equipment and Devices
  .1 All equipment and devices shall be labeled with their tag # first and if this is not available the circuit #, IP address or Zone shall be labeled with machine printed material. Examples of the equipment and devices that shall be labeled:
    1. Receptacles
    2. Light switches
    3. Motors / Pumps
    4. AHU’s
    5. Heaters
    6. Equipment specific to the area
    7. Fire Alarm System field devices
    8. Unit Equipment

2.3 Distribution Equipment and Panel Board Identification
  .1 Refer to Section 26 10 00 Secondary Power Distribution, 3.0, and Standard Drawing E10-2.
  .2 The following outline the color requirements for lamicoids at distribution equipment:
    .1 Utility Power:
      1. Black with White Letters
    .2 Generator Power:
      1. Single generator with 1 transfer switch (Life Safety and Standby / Life Safety only loads):
        1. ATS (Red with White) → Main EM distribution (Red with White) → Downstream distributions (Red with White)
      2. Single generator with 1 transfer switch (Standby only loads):
        1. ATS (Yellow with Black) → Main EM distribution (Yellow with Black) → Downstream distributions (Yellow with Black)
      3. Generator(s) with 2 or more transfer switches:
        1. Generator Main Distribution (Red with White)
        2. ATS and downstream distributions for Life Safety (Red with White)
        3. ATS and downstream distributions for Standby (Yellow with Black)
        4. ATS and downstream distributions for Data Center/IT Equipment/UPS/IT Exclusive loads (Blue with white)
    .3 UPS/Inverter power:
      1. UPS and Downstream Distributions (Blue with white).

2.4 Secondary Distribution Raceways and Cables Identification
  .1 Raceways and cables for interior LOW VOLTAGE systems shall be identified in accordance with Drawing E10-1.

2.5 Concealed Equipment Identification
  .1 BLUE colored dots shall be utilized for identification of concealed electrical equipment where removable panels/tiles exist. This includes but is not limited to:
    .1 Suspended T-Bar ceiling
    .2 Wall or Ceiling.
  .2 Equipment Type:
    .1 Lighting Controllers
    .2 Electrical boxes
.3 Dot requirements:
  .1 Provide self-adhesive color coded dots 13 mm in diameter.
  .2 Dots shall be Avery TR808 or an alternate approved by the Owner.

***END OF SECTION***