Part 1 General

1.1 SECTION INCLUDES

.1 Requirements and procedures for identification of Building Energy Monitoring and Control System (EMCS) devices such as: sensors; wiring; tubing; conduit; and equipment. This section covers requirements for nameplate materials, colours and lettering sizes.

1.2 RELATED SECTIONS

.1 Division 01 – General Requirements.

.2 Section 25 05 01 - EMCS: General Requirements.

.3 Section 23 05 53 01 – Mechanical Identification.

1.3 REFERENCES

.1 Canadian Standards Association (CSA International):

.1 CSA C22.1 - The Canadian Electrical Code, 2012, Safety Standard for Electrical Installations.

1.4 SYSTEM DESCRIPTION

.1 Language Operating Requirements: provide identification for control items in English.

1.5 SUBMITTALS

.1 Submittals in accordance with:

.1 Division 01 – General Requirements.

.2 Section 21 05 01 – Common Work Results for Mechanical.

.2 Submit samples to Owner's Representative for pre-approval. Include samples of nameplates, identification tags and list of proposed wording.

Part 2 Products

2.1 WARNING LABELS

.1 Permanent warning labels shall be affixed to all equipment which can be automatically started by the EMCS system.

.1 Labels shall use white lettering (12-point type or larger) on a red background.

.2 Warning labels shall read as follows:

C A U T I O N

This equipment is operating under automatic control and may start or stop at any time without warning. Switch disconnect to "Off" position before servicing.

.2 Permanent warning labels shall be affixed to all motor starters and all control panels which are connected to multiple power sources utilizing separate disconnects.

.1 Labels shall use white lettering (12-point type or larger) on a red background.

.2 Warning labels shall read as follows:

C A U T I O N

This equipment is fed from more than one power source with separate disconnects. Disconnect all power sources before servicing.

2.2 IDENTIFICATION OF HARDWARE AND WIRING

.1 All wiring and cabling, including that within factory-fabricated panels, shall be labelled at each end within 5 cm of termination with the information provided as sample. See Appendix I – Object Tagging.

Field Equipment Identification: To be as per laminated sample.

.1 To include the following:

.1 Scale/set-up range.

.2 Panel (controller) address.

.3 Point address.

.4 Device Part #/Manufacturer.

.5 To be orange background.

.2 All pneumatic tubing shall be labelled at each end within 5 cm of termination with a descriptive identifier.

.3 Permanently label or code each point/object of field terminal strips to show the instrument or item served.

.4 Identify control panels with minimum 1 cm letters on laminated plastic nameplates.

.5 Identify all other control components with permanent labels. All plug-in components shall be labelled such that removal of the component does not remove the label.

.6 Identify room sensors relating to terminal box or valves with nameplates.

.7 Identifiers shall match record documents.

.8 Conduit:

.1 Colour code EMCS conduit. Confirm colour coding with Owner's Representative during project start-up meeting.

.2 Pre-paint box covers and conduit fittings as per Owner's Standards.

Part 3 Execution

3.1 NAMEPLATES AND LABELS

.1 Ensure that manufacturer's nameplates, CSA labels and identification nameplates are visible and legible at all times.

3.2 EXISTING PANELS

.1 Correct existing nameplates and legends to reflect changes made during Work.

END OF SECTION