1.1 **GENERAL**

1.2 Coordination Requirements

.1 SFU Facilities

1.3 Description

.1 SFU requirements for Protective Device Coordination and Arc-Flash Analysis for AC or DC electrical equipment.

2.1 **MATERIAL AND DESIGN REQUIREMENTS**

2.2 General

.1 The engaged consultant shall provide short circuit analysis and protective device coordination studies as prepared by the equipment manufacturer for all electrical protective devices to verify each device can safely withstand and interrupt the available fault currents to which they are applied.

.2 Utility information shall be provided, upon request, to the consultant or equipment manufacturer by SFU Facilities

.3 Coordination information shall be shown on a graphical chart in log-log format for all applicable low voltage devices and for all devices used for Medium Voltage protection. All device settings shall be indicated either on the chart or accompanying the chart.

.4 The maximum allowable Arc Flash Hazard category for any part within Medium Voltage unit substations will be advised by SFU consultant LEX Engineering on a case by case basis.

.5 The engaged consultant shall provide an Arc Flash hazard analysis for all applicable components of the project’s electrical distribution system per CSA Standard Z462.

.6 The engaged consultant shall ensure that every effort is given to minimize the Arc Flash Hazard category while maintaining selective device coordination.

.7 The Arc Flash hazard analysis shall clearly indicate the Incident Energy, Arc Flash protection boundary and Hazard Category for each applicable device.

.8 All documentation shall be in colour and provided in soft copy PDF format. Scanned copies shall not be permitted.

.9 All applicable equipment shall have Arc Flash Hazard labels affixed as required in Section 26 10 00 Secondary Power Distribution.

.10 All ground fault protection devices must be readily accessible for monthly testing as per code requirements.

***END OF SECTION***