1.1 **GENERAL**

1.2 Related SFU Technical Requirements

   .1  *Section 20 00 05 Mechanical - General Requirements*
   .2  *Section 21 05 00 Fire Protection - General Requirements*

1.3 Description

   .1 Additional SFU design and approval requirements for Pre-Engineered Wet Chemical Fire Protection Systems.

2.1 **MATERIALS AND DESIGN REQUIREMENTS**

2.2 Design Standards

   .1 Do the work in accordance to the latest edition of the following standards unless specified otherwise. NFPA 17A Wet Chemical Extinguishing Systems.

2.3 Products – General

   .1 ULC listed pre-engineered system.

2.4 Storage Containers

   .1 Main and connected reserve bank of extinguishing agent and expellant gas containers.
   .2 Pressure gauge on each container.
   .3 Approved container mounting and retaining system.
   .4 Main or reserve supply selector switch.
   .5 Directional flow valves.

2.5 Piping and Fittings

   .1 In accordance with ULC listing.
   .2 Finish shall be chrome plated or polished stainless steel in exposed areas.

2.6 Discharge Nozzles

   .1 Chrome plated brass or stainless steel in accordance with and ULC listing.

2.7 Detection of Fires

   .1 In accordance with ULC listing.

2.8 Operating Devices

   .1 In accordance with ULC listing.
   .2 Provide one manual control ULC listed operating station.
   .3 Shut down all devices in accordance with the listing.

2.9 Building Fire Alarm Connections

   .1 Specify trouble and discharge terminal points for tying into building fire alarm system as specified in *Division 28.*
.2 Building Fire Alarm System shall monitor the controller for: Discharge (Alarm), Trouble (Supervisory) using individual modules mounted external to the controller.

2.10 Installation

.1 Specify installation and test to acceptance in accordance with ULC listing.
.2 Testing to be witnessed by Owner (SFU Facilities) and Burnaby Fire Department.

***END OF SECTION***