1.1 **GENERAL**

1.2 **Related SFU Technical Requirements**

1.2.1 Section 20 00 05 Mechanical - General Requirements

1.2.2 Section 21 05 00 Fire Protection - General Requirements

1.3 **Description**

1.3.1 Additional SFU design and approval requirements for Pre-Engineered Dry Chemical Fire Protection Systems.

2.1 **MATERIALS AND DESIGN REQUIREMENTS**

2.2 **Design Standards**

2.2.1 Do the work in accordance with the latest edition of the following standards unless specified otherwise:

2.2.1.1 NFPA 17, Dry Chemical Extinguishing Systems.

2.3 **Products General**

2.3.1 Specify ULC listed pre-engineered system suitable for specific type of fat/grease used in deep-frying operations.

2.4 **Storage Containers**

2.4.1 Specify main and connected reserve bank of extinguishing agent and expellant gas containers.

2.4.2 Specify pressure gauge on each container.

2.4.3 Specify approved container mounting and retaining system.

2.4.4 Specify main or reserve supply selector switch.

2.4.5 Specify directional flow valves.

2.5 **Piping and Fittings**

2.5.1 Specify schedule 40 galvanized steel with galvanized malleable iron fittings and screwed joints.

2.5.2 Specify black iron, chrome plated or stainless steel in exposed areas.

2.6 **Discharge Nozzles**

2.6.1 Specify chrome plated brass or stainless steel in accordance with NFPA 17 and ULC listed.

2.7 **Detection of Fires**

2.7.1 ULC listed automatic detection system to NFPA 17.

2.8 **Operating Devices**

2.8.1 ULC listed operating system to NFPA 17.

2.8.2 Provide one manual control ULC listed operating station to NFPA 17.
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***