

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 01 00 10 – General Instructions.
- .2 Section 01 91 13 – General Commissioning (Cx) Requirements.

1.2 DESCRIPTION

- .1 Demonstrate operation and maintenance of equipment and systems to the Departmental Representative prior to date of interim completion. All training shall be completed in both official languages in separate training sessions.
- .2 The Departmental Representative will provide list of personnel over the course of the project to receive instructions, and will coordinate their attendance at agreed-upon times during “regular working hours”. Multiple training sessions will be required over the duration of the project and as the fire alarm system components are placed into operation. Allow for a minimum of six (6) training sessions over the construction period including the final training session.
- .3 The following outlines the requirement for individual training sessions that will be required over the duration of the project.
 - .1 Fire alarm system function and operation when cross connection between new and existing systems are completed.
 - .2 Operation of each local area transponders once in service.
 - .3 Function of “Fire Command Centre Computer” in conjunction with new Fire Alarm System and cross connection of existing system.
 - .4 Pre-training of complete Fire Alarm System and all associated devices. Classroom session describing the system operation and related functionality of the system. (Prior to project substantial completion).
 - .5 Hands on training session with all designated staff and fire department staff (Prior to project substantial completion).
 - .6 Retraining session four (4) months after substantial completion.

1.3 QUALITY CONTROL

- .1 All training and demonstration shall be completed by the manufacturer’s representative, instruct the Departmental Representative, and provide written report that demonstration and instructions have been completed.

1.4 SUBMITTALS

- .1 Submit schedule of time and date for demonstration of each item of equipment and each system. Training schedule shall be incorporated into the Commissioning and Performance Verification Schedule.

- .2 Six (6) weeks prior to each training session described in Article 1.2 DESCRIPTION, in this section, the Contractor shall submit in both official languages a detailed training plan outlining what will be covered, along with all of the technical support information such as component shop drawings, system sequence of operation in place at time of training. This document will be reviewed by Departmental Representative and returned within two (2) weeks of receipt. The Contractor shall update as required and provide final documents to Departmental Representative one (1) week prior to each training session.
- .3 Submit reports within one (1) week after completion of demonstration, that demonstration and instructions have been satisfactorily completed.
- .4 Give time and date of each demonstration, with list of persons present.

1.5 CONDITIONS FOR DEMONSTRATIONS

- .1 Equipment has been inspected and put into operation in accordance with Section 01 91 13 – General Commissioning (Cx) Requirements.
- .2 Testing, adjusting, and balancing have been performed in accordance with Section 01 91 13 – General Commissioning (Cx) Requirements and equipment and systems are fully operational.
- .3 Provide copies of completed operation and maintenance manuals for use in demonstrations and instructions.

1.6 PREPARATION

- .1 Verify that conditions for demonstration and instructions comply with requirements.
- .2 Verify that designated personnel are present.

1.7 DEMONSTRATION AND INSTRUCTIONS

- .1 Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, and maintenance of each item of equipment.
- .2 Schedule demonstration and training of the installed systems. The systems and equipment provided under this contract requiring integration are:
 - .1 Annunciator and Control.
 - .2 Active Graphic Computer
 - .3 Evacuation Paging System
 - .4 Sprinkler System Devices
- .3 Instruct personnel in all phases of operation and maintenance using operation and maintenance manuals as the basis of instruction.
- .4 Review contents of manual in detail to explain all aspects of operation and maintenance.
- .5 Prepare and insert additional data in operations and maintenance manuals when the need for additional data becomes apparent during instructions.

UNCLASSIFIED

Part 2 Products

2.1 NOT USED

.1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION