

**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.
- .2        The Departmental Representative will provide list of personnel to receive instructions, and will coordinate their attendance at agreed-upon times. Allow for a minimum of five (5) people over five (5) days.

**1.3            QUALITY CONTROL**

- .1        When specified in individual Sections, require manufacturer to provide authorized representative to demonstrate operation of equipment and systems, 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        Submit reports within one (1) week after completion of demonstration, that demonstration and instructions have been satisfactorily completed.
- .3        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.

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**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 Fuel Transfer Pumps.
  - .2 Fuel Monitoring System
  - .3 Electrical Distribution Status and Monitoring.
  - .4 Generator and Associated Systems.
  - .5 Fire Alarm System.
  - .6 Monitoring Controls.
- .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.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not Used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**