



LAST REVIEW DATE:
4/28/14

REVIEW CYCLE:
5 Years

SPECIFICATION: **G-8094-9**

TITLE: **GAS EQUIPMENT FOR DUAL-FUEL
INTERRUPTIBLE SERVICE UNDER
CLASSIFICATION NO. 12 PRIORITIES AB,
C, D, AND E**

★ VOLUME: **3 and Yellow Book**

REVISION: (See ★)

- 1) Cover Sheet - Changed "Gas Blue Book" to "Yellow Book."
- 2) Section 5.3 - Replaced "Metscan or approved equivalents" with "interruptible monitor."
- 3) Section 9.2 - Replaced "Metscan or approved equivalents" with "interruptible monitor."



Gas Operations Standards

**TITLE: GAS EQUIPMENT FOR DUAL-FUEL
INTERRUPTIBLE SERVICE UNDER
CLASSIFICATION NO. 12, PRIORITIES AB, C, D,
AND E**

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	SCOPE	2
2.0	APPLICABLE USE	2
3.0	LEGAL REQUIREMENTS	2
4.0	GAS EQUIPMENT AND INSTALLATION	2
5.0	REMOTE MONITORING AND CONTROL EQUIPMENT	4
6.0	AUTOMATIC OPERATION	4
7.0	SEMI-AUTOMATIC OPERATION	4
8.0	ALTERNATE FUEL SUPPLY	5
9.0	INSPECTIONS	5
10.0	REFERENCES	5

ENVIRONMENTAL REVIEW BY: N. Giraldi		SAFETY REVIEW BY: N. Giraldi		
PREPARED BY:	APPROVED BY:	DATE:	VOLUME: 3, YB	PAGE 1
G. Ludwig	Liliana Gonzalez General Manager Technical Operations	4/28/14	Metering Specs and Procedures; Yellow Book	OF 5 PAGES



**TITLE: GAS EQUIPMENT FOR DUAL-FUEL
INTERRUPTIBLE SERVICE UNDER
CLASSIFICATION NO. 12 PRIORITIES AB, C,
D, AND E**

1.0 SCOPE

This specification describes equipment requirements for Interruptible Service under Service Classification No. 12, Temperature Controlled and Notification Service. Temperature controlled, Priorities AB, C, D and Notification Service, Priority E. It covers utilization and control for installation, operation and maintenance of equipment used.

2.0 APPLICABLE USE

- 2.1 All requirements for SC No. 12, Priorities AB, C, D, and E listed in the "Schedule for Gas Service" shall be met. In addition, all other requirements outlined in this gas standard must be satisfied.
- 2.2 Service eligibility must be satisfied through Energy Services in conjunction with CSP 4-2-2.
- 2.3 Priority AB, C, and D are temperature controlled or notification customers.
- 2.4 Priority E are notification customers only.

3.0 LEGAL REQUIREMENTS

None.

4.0 GAS EQUIPMENT AND INSTALLATION

- 4.1 The Customer shall be responsible for the costs associated with providing and installing the piping, telephone line and fuel change over equipment, as specified by the Company. Maintenance, except for the gas meters, regulators, meter equipment and remote data recorder furnished by the Company, shall be the responsibility of the Customer. All material and construction shall meet requirements of the Company and authorities having jurisdiction.



NUMBER:	DATE:	VOLUME: 3, YB	PAGE 2
G-8094-9	4/28/14	Metering Specs and Procedures; Yellow Book	OF 5 PAGES



**TITLE: GAS EQUIPMENT FOR DUAL-FUEL
 INTERRUPTIBLE SERVICE UNDER
 CLASSIFICATION NO. 12 PRIORITIES AB, C,
 D, AND E**

4.0 GAS EQUIPMENT AND INSTALLATION (Continued)

- 4.2 Gas utilization equipment supplied under this rate shall be of the dual-fuel type and approved by authorities having jurisdiction. Gas supply to the equipment shall be controlled by an approved automatic gas shutoff valve. A welded 3/4" threadolet with a nipple, valve (lockable plug valve) and completion plug shall be provided down stream, to permit a leak test of the automatic valve. If pilot gas use will be less than 10 therms per day during a curtailment, the customer is not required to pipe a separate SC-2 supply for the pilot gas.

- 4.3 For Temperature Controlled Customers, a Gas – Oil automatic thermostatic control, Digispan control or approved equivalent shall be wired into the control circuit to provide automatic change over to an alternate fuel source. The Company may permit semi-automatic operation when customer's equipment will not accommodate automatic equipment. For semi-automatic operation, see Section 7.0.

- 4.4 For Notification Customers, a manual Gas-Oil switch is to be wired into the control circuit.

- 4.5 The temperature-sensing component of the changeover control shall be installed on the outside of the building on the north side, exposed to the outside ambient air temperature and out of direct sunlight. The component shall be installed at least 7 feet above the final ground level and shall be protected from damage by the elements, vandalism and other sources. It shall not be installed less than 2 feet above or below any air exhaust duct or within a horizontal distance of 2 feet from such a duct or wall opening. Location shall be subject to approval by the Company.

- 4.6 The switching and temperature setting components shall be installed indoors in an accessible location. It shall be mounted no more than 5 feet above the floor, on part of the building structure not subject to unusual movement, vibration or shock and subject to approval by the Company.

- 4.7 Gas Measurement shall approve all new and replacement equipment.



NUMBER:	DATE:	VOLUME: 3, YB	PAGE 3
G-8094-9	4/28/14	Metering Specs and Procedures; Yellow Book	OF 5 PAGES



**TITLE: GAS EQUIPMENT FOR DUAL-FUEL
INTERRUPTIBLE SERVICE UNDER
CLASSIFICATION NO. 12 PRIORITIES AB, C,
D, AND E**

5.0 REMOTE MONITORING AND CONTROL EQUIPMENT

5.1 All new SC-12 customers, are required to install and maintain the following equipment: alternate fuel control system, Digispan (or approved equivalent) electronic thermostat with temperature sensor, voltage regulating equipment with circuit protection and control wiring for the dual-fuel equipment. A dedicated telephone line terminating in a lockable Hoffman (or equivalent) protective box is to be mounted on an 18" by 24" (inch) plywood board. The mounting board is to be close as possible to the gas meter.

5.2 Notification customers do not require the temperature sensing Digispan or approved equivalent control.

★ 5.3 Gas Measurement section will be responsible to install the interruptible monitor, which includes the connection to the telephone line and to the pulse generating gas meter head. They shall configure the equipment and test operation of the remote data recorder and telephone line.

5.4 The Company reserves the right to change any or all remote monitoring equipment at its discretion.

6.0 AUTOMATIC OPERATION

Automatic transfer is the usual means of controlling gas use under temperature-controlled service; i.e., the fuel changeover is completely controlled by the temperature setting of the Digispan control (or approved equivalent.)

7.0 SEMI-AUTOMATIC OPERATION

In lieu of automatic operation, the Company will allow semi-automatic operation of the fuel changeover equipment. When semi-automatic operation is allowed, the following additional requirements will apply:

A) When the Customer's semi-automatically operated dual-fuel equipment is in operation during the heating season from October 15 to May 1, the Customer shall have qualified personnel on duty to execute a manual changeover.



NUMBER:	DATE:	VOLUME: 3, YB	PAGE 4
G-8094-9	4/28/14	Metering Specs and Procedures; Yellow Book	OF 5 PAGES



**TITLE: GAS EQUIPMENT FOR DUAL-FUEL
INTERRUPTIBLE SERVICE UNDER
CLASSIFICATION NO. 12 PRIORITIES AB, C,
D, AND E**

7.0 **SEMI-AUTOMATIC OPERATION** (Continued)

- B) Suitable audible and/or visual alarms must notify the operator to execute a fuel changeover. The customer has the responsibility to maintain the dual-fuel control and alarm system in proper working order.

8.0 **ALTERNATE FUEL SUPPLY**

- 8.1 It shall be the Customer’s responsibility to maintain an adequate alternate fuel supply for use during periods of gas interruption. To assist the customer in planning for an adequate supply of alternate fuel, Energy Services will notify the customer with a “Pre-Heating Season Letter” of required temperature settings and other responsibilities (refer to CSP 4-2-2.) The Customer will be informed that the settings are subject to change. The Customer will also be made aware that any unauthorized gas use will result in a penalty bill.
- 8.2 Notification Customers are required to change to an alternate fuel within 6 hours of notification by Gas Supply Transportation Services.

9.0 **INSPECTIONS**

- 9.1 Each new installation will be inspected (as per G-128) by Energy Services.
- ★ 9.2 The Gas Measurement Section shall test and maintain the interruptible monitor in accordance with G-698 and Gas Measurement Operating Procedure GM-104 to ensure it is operating properly.

10.0 **REFERENCES**

- CSP 4-2-2 – “Gas Service: Transportation, Interruptible, and Off Peak Firm Gas Service”
- G-128 – “Inspection of Temperature Controlled Dual-Fuel Equipment”
- G-698 - "Gas Measurement Operating Procedures"
- Gas Measurement Operating Procedure GM-104



NUMBER:	DATE:	VOLUME: 3, YB	PAGE 5
G-8094-9	4/28/14	Metering Specs and Procedures; Yellow Book	OF 5 PAGES