

**PETROLEUM (COMPRESSED NATURAL GAS)
REGULATIONS**

ARRANGEMENT OF REGULATIONS

REGULATION

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APPENDIX.

[Subsidiary]

196/1994,
[206/1998
175/1995
207/1998].**PETROLEUM (COMPRESSED NATURAL GAS)
REGULATIONS***made under section 29*

Short title. **1.** These Regulations may be cited as the Petroleum (Compressed Natural Gas) Regulations.

Interpretation. **2.** In these Regulations—

“Compressed natural gas” hereafter referred to as “CNG” means petroleum in the form of a mixture of hydrocarbon gases and vapours, consisting principally of methane (CH₄), which have been compressed for use as a vehicular fuel;

“compressed natural gas vehicles” hereafter referred to as “CNGV” means a vehicle which contains systems for use of CNG as a fuel;

“CNG consumer refuelling station” means premises on which CNG is dispensed for use in motor vehicles;

“container” means either a cylinder or pressure vessel used to store CNG;

“cylinder” means a container constructed, inspected and maintained according to the standards issued by the Trinidad and Tobago Bureau of Standards or such other regulatory organisation approved by the Minister;

“licensee” means the holder of a licence in accordance with these Regulations;

“Minister” means the Minister to whom responsibility for the subject of petroleum is assigned, and “Ministry” shall be construed accordingly;

“CNG system” means CNG refuelling station equipment and all components thereto used in the refuelling facility;

“CNGV system” means CNG conversion equipment and all components thereto used in motor vehicles.

Publication of CNG System. **3.** (1) The Minister shall from time to time approve CNGV and CNG systems and shall, by Notification in the *Gazette* and in

at least one daily newspaper circulating in Trinidad and Tobago, publish the information on the systems that have been approved by him.

(2) No action shall lie against the Minister for any act omitted to be done, or done in pursuance of his functions under this section.

4. The Minister may grant the following types of licences CNG Licences. for the purposes of these Regulations:

- (a) a CNG Service Licence;
- (b) a CNG Marketing Licence;
- (c) a Consumer Refuelling Licence.

5. No person may— Prohibition.

- (a) install, maintain or repair a CNGV system unless the person holds a CNG Service Licence;
- (b) supply CNG to a motor vehicle unless the person holds a CNG marketing Licence; or
- (c) dispense CNG for his use, unless the person holds a CNG Consumer Refuelling Licence.

6. (1) A person may obtain a licence required under regulation 4, by applying in writing to the Minister, and supplying the following particulars: Applications for licences.

- (a) name and nationality;
- (b) the name of the business and the address of the premises to which the application relates;
- (c) a description of the premises to which the application relates, illustrated by a plan or map to be prepared in such scale as the Minister may require, a description of the situation, boundaries and area of the parcel of land, and in the case of any land referred to in section 2(3) of the Act, such other particulars as may be required in order to identify them;

- (d) with regard to the premises, evidence that prior permission has been obtained from the appropriate authorities and submitted to the Minister, ensuring compliance with all the statutory provisions in respect of traffic, town and country planning, public health and other relevant written law;
- (e) a description of the CNGV or the type of CNG system which is to be installed, maintained or repaired;
- (f) the manufacturers' specifications, including the codes or standards to which components of the system referred to in paragraph (e) adhere, and those specifications shall conform to standards issued by the Trinidad and Tobago Bureau of Standards or such other regulatory organisation approved by the Minister from time to time;
- (g) where applicable, the qualifications of the technical members of staff employed in inspection, installation, maintenance and repair of CNGV or CNG systems;
- (h) a statement of the capital investment involved, and evidence of the applicant's financial and technical resources and capability to function efficiently;
- (i) evidence of the applicant's ability to obtain the appropriate equipment to ensure safe and efficient operations;
- (j) such other particulars as the Minister may require.

(2) In addition, an applicant for a CNG Marketing Licence shall show that—

- (a) the CNG system to be used is of the type and rating approved by the Minister; and
- (b) he is capable of operating and maintaining the CNG equipment, in accordance with sound industry practice.

7. An application shall be accompanied by an application fee of five hundred dollars, however where the Minister does not approve the application, one half of the fee shall be refunded to the applicant. Application fee.

8. (1) Where the Minister is satisfied that an applicant for a licence meets the requirements of these Regulations, he shall grant the licence in accordance with the Form set out in the Schedule, upon the applicant paying the licence fee as stipulated in subregulation (2). Approval of application.
Schedule.

(2) The fee for each type of licence shall be as follows:

- (a) CNG Service Licence \$1,000.00
- (b) CNG Marketing Licence \$1,000.00
- (c) CNG Consumer Refuelling Licence \$5,000.00

(3) A licence shall be granted for a period of one year and shall be renewable annually.

9. Where, before the application is granted, a change occurs in respect of any of the particulars contained in the application, the applicant shall inform the Minister forthwith of the relevant change. Change in particulars.

10. (1) The Minister may include as conditions of the licence, instructions and specifications relating to design and installation, testing, maintenance, repair and storage of CNGV or CNG systems in addition to any other conditions that he may be authorised to impose under the Act. Conditions of licence.

(2) Further to subregulation (1) it shall be a condition of the licence that the licensee shall enable authorised representatives of the Minister at all reasonable times to enter the premises and to inspect the operations carried out under the licence, and such authorised persons may make abstracts or copies of any records, accounts and other documents which the licensee is required to keep in accordance with the provisions of his licence, but the inspection shall not be carried out in such a manner as unduly to hinder or affect adversely the operations being conducted by the licensee.

Special obligations of each licensee

11. (1) The holder of a CNG Service Licence shall ensure that only CNGV systems approved by the Minister are installed, maintained or repaired by the holder.

(2) The holder of a CNG Marketing Licence shall refuse to refill any type of CNGV system which has not been approved by the Minister.

(3) The holder of a CNG Consumer Refuelling Licence may dispense CNG for his own use, but:

- (a) shall not engage in retail operations to the public; and
- (b) shall ensure that only CNGV and CNG systems approved by the Minister are used in his operations.

(4) CNGV systems approved by the Minister shall be installed, maintained and repaired according to the standards issued by the Trinidad and Tobago Bureau of Standards or such other regulatory organisation approved by the Minister.

(5) The licensee shall within a period of fourteen days respond to any queries raised by the authorised representatives of the Minister.

(6) The licensee shall take every precaution to ensure safety in operations and shall comply with instructions given by authorised representatives of the Minister from time to time.

(7) The holder of a CNG Service Licence shall provide the customer with written guidelines detailing the periodic inspections that need to be performed on the CNGV system to ensure its integrity.

(8) The holder of a CNG Service Licence shall provide upon request by customers, inspection services for CNGV systems installed by him and shall on satisfactory completion of the inspection, issue to the customer a certificate or statement of inspection for the current period.

(9) The guidelines referred to above shall include all guidelines on the periodic inspection of CNGV systems issued by

the Trinidad and Tobago Bureau of Standards or other regulatory organisation approved by the Minister, and specific guidelines issued by the appropriate CNGV system manufacturers.

12. A licensee shall exhibit a copy of his licence in a conspicuous place on the licensed premises. Exhibition of licence.

13. (1) An application for renewal of a licence shall be made two months before the date of expiry of the licence. Renewal of licence.

(2) Where an application for renewal of a licence has been made within the required time, the applicant may continue in business pending the determination of his application by the Minister.

(3) The Minister in considering an application for renewal of a licence shall be guided by the provisions of these Regulations that relate to an application for a licence, and may renew such licence on receipt of a renewal application fee of five hundred dollars.

14. A licensee shall keep accurate records and accounts of his operations including where applicable, volumes of CNG sold or used and records of the CNG system and the vehicles on which CNGV systems were installed, maintained or repaired, the manufacturers specifications, codes, standards and the nature of the work done, and shall submit such information as the Minister may require from time to time. Records, etc.

15. The Minister shall as soon as possible after the grant, termination or revocation of a licence, cause Notice of that fact to be published in the *Gazette* and in at least one daily newspaper circulating in Trinidad and Tobago stating— Publication of grant or renewal or revocation of licence.

- (a) the name of the licensee and the address of the licensed premises; and
- (b) the person whose licence was terminated or revoked, and the name and address of the premises to which the termination or revocation relates.

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Petroleum

[Subsidiary]

Petroleum (Compressed Natural Gas) Regulations

Compilation of
CNG Register.

16. The Minister shall cause a CNG register to be compiled by and maintained by the Ministry for the registration of all applications for the grant, renewal, termination and revocation of licences and other particulars relating thereto.

Alteration of
system.

17. A licensee shall not enlarge or substantially alter a CNGV or CNG system without the prior consent of the Minister in writing.

Breach of
Regulations.

18. (1) Where an authorised representative of the Minister discovers that a licensee has committed a breach of these Regulations or the conditions of the licence, he shall inform the Minister forthwith and the Minister may, according to the nature of the breach:

- (a) revoke the licence; or
- (b) suspend it, giving appropriate notice requiring the licensee to remedy the breach within a specified time.

(2) Where the licensee does not remedy the breach within the time specified, the Minister may revoke the licence according to the circumstances.

Suspension or
revocation to be
in writing.

19. Suspension or revocation of a licence under these Regulations shall be communicated in writing.

Accidents.

20. (1) Where an accident occurs on the licensed premises and such accident causes damage to any person, his property or to the licensed premises, the licensee shall notify the Minister about the accident immediately.

(2) Within seven days after the accident occurs, the licensee shall submit a formal report to the Minister who shall take such steps as the circumstances necessitate.

(3) No alteration may be made by a licensee to any CNG system on the licensed premises after an accident or fire without the written permission of the Minister, unless such alteration is necessary to render the CNG system safe.

21. A person who contravenes any of the provisions of these Regulations is guilty of an offence and is liable on summary conviction to a fine of fifteen thousand dollars, and in the case of a continuing offence, to a further fine of one thousand dollars, for every day during the continuation of the offence. Offences.

22. Notifications made under these Regulations are contained in the Appendix. Appendix.

SCHEDULE Regulation 4.

FORM 1

THE PETROLEUM ACT, CH. 62:01
(CNG REGULATIONS)

SERVICE LICENCE

Fee: \$1,000.00

In respect of Installation, Repair and Maintenance Compressed Natural Gas Vehicles

IN EXERCISE of the powers conferred on me under section 9 of the Petroleum Act, Ch. 62:01 I hereby grant a licence to to engage in offering for sale, maintaining or repairing a CNG system or any of its components in a motor vehicle at subject to the conditions set out hereunder.

CONDITIONS

1. The licensee shall comply with the provisions of the Act and the Regulations and any Rules or Orders made thereunder.
2. Technical members of staff must be trained in the installation, maintenance and inspection of CNGV systems and must be competent to carry out such operations.

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3. The following equipment installed on the premises shall be kept in good working conditions at all times:
 - (i) gas leak detection equipment;
 - (ii) vehicle lifting equipment or a suitable ramp;
 - (iii) floor creepers;
 - (iv) gas proof inspection lights.
4. No fire or lights except enclosed electric lamps or such type of lighting as approved by the competent authority shall be allowed on the licensed premises.
5. The licensee shall ensure that only CNGV systems approved by the Minister are installed, maintained or repaired by him.
6. The said premises must provide a well ventilated building with room for working on at least two vehicles under cover at one time.
7. The licensee shall keep accurate records and accounts for a period of five years of the vehicles on which CNGV systems were installed, maintained or repaired including the type of CNGV systems and components, the manufacturers' specifications, codes, standards and the nature of the work done.
8. Personnel authorised by the Minister shall be permitted to enter the licensed premises at any reasonable time, to ascertain whether the conditions of the licence are being adhered to, to examine and if necessary, make abstracts or copies of records and accounts stipulated in paragraph 7 above.
9. This licence shall be prominently displayed at (address).
10. The rights acquired by this licence shall not be assigned.
11. This licence may be revoked for breach of any of the conditions set out above or for any contravention of the Act or the Regulations.
12. This licence expires on the 20.....

Date

.....
*Minister of
Energy and Energy Industries*

FORM 2

Regulation 4.

THE PETROLEUM ACT, CH. 62:01

(CNG REGULATIONS)

MARKETING LICENCE

Fee: \$1,000.00

In respect of Retail Transactions

IN EXERCISE of the powers conferred on me under section 9 of the Petroleum Act, Ch. 62:01, I hereby grant a licence toto engage in retail marketing transactions of compressed natural gas at subject to the conditions set out hereunder.

CONDITIONS

1. The licensee shall comply with the provisions of the Act and the Regulations and any Rules or Orders made thereunder.
2. The licensee shall keep accurate records and accounts, for a period of three years, of the volumes of natural gas sold.
3. Equipment installed on the premises shall be kept in good working condition at all times including—
 - (i) gas leak detection equipment; and
 - (ii) gas proof inspection lights.
4. CNG shall be dispensed by means of dispensing units at the positions marked "X" on the approved plan.
5. No fire or lights except enclosed electric lamps or such type of lighting as approved by the competent authority shall be allowed on the approved premises.
6. Personnel authorised by the Minister shall be permitted to enter the licensed premises at any reasonable time to ascertain whether the conditions of the licence are being adhered to, to examine and if necessary, make abstracts or copies of records and accounts stipulated in paragraph 2 above.
7. The licensee shall refuse to refill any type of CNGV system which has not been approved by the Minister, or which was not installed or maintained according to the standards issued by the Trinidad and Tobago Bureau of Standards, or such other regulatory organisation approved by the Minister.

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8. This licence shall be prominently displayed at (address)
.....
9. The rights acquired by this licence shall not be assigned.
10. This licence expires on the day of, but may be renewed for successive periods of one year.
11. This licence may be revoked for breach of any of the conditions set out above or for any contravention of the Act or the Regulations.
12. Upon termination of the agreement/agreements between the licensee and the supplier of natural gas for any cause whatsoever, this licence shall be determined by the licensee giving notice thereof to the Minister.

Date

.....
*Minister of
Energy and Energy Industries*

FORM 3

Regulation 4.

THE PETROLEUM ACT, CH. 62:01

(CNG REGULATIONS)

CONSUMER REFUELLING LICENCE

Fee: \$5,000.00

**In respect of the Refuelling of CNG Fuelled Vehicles
(non-retail transactions)**

IN EXERCISE of the powers conferred on me under section 9 of the Petroleum Act, Ch. 62:01, I hereby grant a licence to to engage in Compressed Natural Gas refuelling operations for his own use subject to the conditions set out hereunder.

CONDITIONS

1. The licensee shall comply with the provisions of the Act and the Regulations and any Rules or Orders made thereunder.
2. The licensee shall keep accurate records and accounts of the compressed natural gas dispensed for his own use for a period of three years.
3. Equipment installed on the premises shall be kept in good working condition at all times including—
 - (i) gas leak detection equipment;
 - (ii) gas proof inspection lights.
4. No fire or lights except enclosed electric lamps or such type of lighting as approved by the competent authority shall be allowed on the approved premises.
5. The licensee shall not engage in retail operations to the public and shall ensure that only CNGV and CNG systems approved by the Minister are used in his operations.
6. CNG shall be dispensed by means of dispensing units at the positions marked "X" on the approved plan.
7. Personnel authorised by the Minister shall be permitted to enter the licensed premises at any reasonable time to ascertain whether the conditions of the licence are being adhered to, to examine and if necessary make abstracts or copies of records and accounts stipulated in paragraph 2 above.
8. This licence shall be prominently displayed at (address)
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9. This licence expires on the day of, but may be renewed for successive periods of one year.
10. The rights acquired by this licence shall not be assigned.
11. This licence may be revoked for breach of any of the conditions set out above or for any contravention of the Act or the Regulations.

Date

.....
*Minister of
Energy and Energy Industries*

APPENDIX

[175/1995].

NOTIFICATION

**ISSUED UNDER REGULATION 3 OF THE PETROLEUM
(COMPRESSED NATURAL GAS) REGULATIONS, 1994**

THE MINISTER with responsibility for Energy and Energy Industries hereby gives notice that in accordance with the power given to him under regulation 3 of the Petroleum (Compressed Natural Gas) Regulations, 1994 he has approved for use in Trinidad and Tobago, the compressed natural gas vehicle systems (hereinafter called "CNGV SYSTEMS") and the compressed natural gas systems, (hereinafter called the "CNG SYSTEMS") detailed in the First and Second Schedules respectively.

FIRST SCHEDULE

CNGV SYSTEMS

(A) *Cylinders*

All cylinders must have identifying marks, including the manufacturer's name and pressure rating and must be marked for CNG usage.

(1) MANUFACTURER	Faber
TYPE	Fuel Cylinders
MANUFACTURING STANDARDS	New Zealand NZS 5454 Specifications
MATERIAL TYPE	Steel
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	300 bars (4,500 psi)

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity/litres</i>
267 ...	1100 ...	50
316 ...	835 ...	50
316 ...	905 ...	55
316 ...	975 ...	60
316 ...	1115 ...	70
356 ...	905 ...	70
356 ...	1235 ...	100

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(2) MANUFACTURER	Inflex
TYPE	Fuel Cylinder
MANUFACTURING STANDARDS	DOT
	ISO
MATERIAL TYPE	Steel
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	300 bars (4,500 psi)

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity/litres</i>
244 ...	972 ...	34
244 ...	1050 ...	40
244 ...	1305 ...	50
244 ...	1545 ...	60
323 ...	774 ...	50
323 ...	912 ...	60
323 ...	975 ...	65
323 ...	1140 ...	75
400 ...	950 ...	95

(3) MANUFACTURER	Cilbras
TYPE	Fuel Cylinders
MANUFACTURING STANDARDS	ISO 4705
	DOT
MATERIAL TYPE	Steel
PRESSURE RATING	3,000 psi
TEST PRESSURE	4,500 psi

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity/litres</i>
270 ...	990 ...	45
270 ...	1150 ...	53
270 ...	1735 ...	80
270 ...	820 ...	36
270 ...	1435 ...	65

(B) *Pressure Regulators*

All pressure regulators must have identifying marks, including manufacturer's name and model number.

- | | | |
|---------|-------------------------|---|
| (1) (i) | MANUFACTURER | Landi Renzo |
| | MODEL | TN 2/CS |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3-M91 |
| | PRESSURE RATING | 3,000 psi |
| (ii) | MANUFACTURER | Landi Renzo |
| | MODEL | TN1C |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3-M91 |
| | PRESSURE RATING | 3,000 psi |
| (iii) | MANUFACTURER | Landi Renzo |
| | MODEL | TN1B |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3-M91 |
| | PRESSURE RATING | 3,000 psi |
| (2) (i) | MANUFACTURER | Rodagas |
| | MODEL | 72.000 |
| | MANUFACTURING STANDARDS | Brazilian Standard NBR
11353 |
| | | NB 1247 |
| | PRESSURE RATING | 200 bars (3,000 psi) |
| (ii) | MANUFACTURER | Rodagas |
| | MODEL | 50.000 |
| | MANUFACTURING STANDARDS | Brazilian Standard NBR
11353 |
| | | NB 1247 |
| | PRESSURE RATING | 200 bars (3,000 psi) |
| (3) | MANUFACTURER | Ansi |
| | MODEL | RE1000 |
| | MANUFACTURING STANDARDS | NBR 001 |
| | | Gas del Estado-Argentina |
| | PRESSURE RATING | 3,000 psi |
| (4) (i) | MANUFACTURER | Tartarini |
| | MODEL | RP/76M |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3-M91 |
| | | Italian Ministry of
Transport Standard 350 |
| | | Argentine Standards |
| | | Malaysian Standards |
| | PRESSURE RATING | 3,000 psi |

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(ii) MANUFACTURER MODEL MANUFACTURING STANDARDS PRESSURE RATING	Tartarini RP/76E95 CAN/CGA 12.3-M91 Italian Ministry of Transport Standard 350 Argentine Standards Malaysian Standards 3,000 psi
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(C) *Pressure Gauges*

(1)	MANUFACTURER MODEL MANUFACTURING STANDARDS DIAL RANGE	Wika 111.10 CAN/CGA 12.3-M91 IR 45 0-5,800 psi
(2)	MANUFACTURER MANUFACTURING STANDARD DIAL RANGE	Rodagas EB-1975 0-400 bars

(D) *Piping*

(1)	MANUFACTURER/SUPPLIER MANUFACTURING STANDARDS MATERIAL TYPE EXTERNAL DIAMETER PRESSURE RATING TEST PRESSURE	Swagelok ASTM Stainless Steel 6 mm 4,000 psi 12,400 psi
(2) (i)	MANUFACTURER/SUPPLIER MANUFACTURING STANDARDS MATERIAL TYPE EXTERNAL DIAMETER PRESSURE RATING TEST PRESSURE	Ansi NBR.001 Gas del Estado-Argentina Stainless Steel 4 mm 200 bars (3,000 psi) 1000 bars (15,000 psi)
(ii)	MANUFACTURER/SUPPLIER MANUFACTURING STANDARDS MATERIAL TYPE EXTERNAL DIAMETER PRESSURE RATING TEST PRESSURE	Ansi NBR.001 Gas del Estado-Argentina Stainless Steel 6 mm 200 bars (3,000 psi) 1000 bars (15,000 psi)

- | | | |
|-----|-------------------------|-------------------------------------|
| (3) | MANUFACTURER/SUPPLIER | Landi Renzo |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3-M91
IR 45 |
| | MATERIAL TYPE | Steel (with PVC covering) |
| | EXTERNAL DIAMETER | 6 mm |
| | PRESSURE RATING | 200 bars (3,000 psi) |
| | TEST PRESSURE | 800/900 bars
(12,000/13,500 psi) |
| | | |
| (4) | MANUFACTURER/SUPPLIER | Bondy Spa |
| | MANUFACTURING STANDARDS | ASTM A254 |
| | MATERIAL TYPE | Steel with Zinc coating |
| | EXTERNAL DIAMETER | 6 mm |
| | PRESSURE RATING | 3,000 psi |
| | TEST PRESSURE | 12,000 psi |

(E) *Cylinder Valves*

All cylinder valves must have identifying marks, including manufacturer's name and model number.

- | | |
|-------------------------|--|
| MANUFACTURER | Emer |
| MODEL | 198/1 |
| MANUFACTURING STANDARDS | CAN/CGA 12.3-M91
IR 45 |
| MATERIAL TYPE | Brass |
| PRESSURE RATING | 210 bars (3,150 psi) |
| TEST PRESSURE | 900 bars (13,500 psi) |
| RELIEF DEVICE TYPE | Combination excess flow/
rupture disc/fusible plug
Rupture disc rating: 300 bars
Fusible plug rating: 212°F |

(F) *Valves (other than Cylinder Valves)*

All valves must have identifying marks, including manufacturer's name and model number.

- | | | |
|-----|-------------------------|--|
| (1) | MANUFACTURER | Emer |
| | MODEL | 198/2B |
| | MANUFACTURING STANDARDS | CAN/CGA 12.3 M91
IR 45
NZSS 5422 |
| | MATERIAL TYPE | Brass |
| | PRESSURE RATING | 210 bars (3,150 psi) |
| | TEST PRESSURE | 900 bars (13,500 psi) |

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(2)	MANUFACTURER	Tartarini
	MODEL	M2
	MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 Italian Ministry of Transport Standard 350 Argentine Standards Malaysian Standards
	MATERIAL TYPE	Brass
	PRESSURE RATING	220 bars
	TEST PRESSURE	800 bars

SECOND SCHEDULE

CNG SYSTEMS

(A) *Compressors*

All compressors must have identifying marks, including manufacturer's name and model number.

(1) (i) MANUFACTURER	Norwalk
TYPE	Charger NQ-SV2 Two stage reciprocating/ Quick-fill
MANUFACTURING STANDARDS	ASTM
PRESSURE CAPACITY	3,600 psi
(ii) MANUFACTURER	Norwalk
TYPE	Three stage reciprocating/ Quick-fill
MANUFACTURING STANDARDS	ASTM
PRESSURE CAPACITY	3,600 psi
(2) MANUFACTURER	Hamworthy Compressor Systems
TYPE	Two stage reciprocating
MANUFACTURING STANDARDS	ASTM
PRESSURE CAPACITY	3,600 psi

(B) *Relief Valves*

All relief valves must have identifying marks, including manufacturer's name, model number and set pressure.

(1) (i) MANUFACTURER	Anderson, Greenwood & Company
TYPE	83 (Direct acting spring loaded)
MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
SET PRESSURE	1,015 psi
(ii) MANUFACTURER	Anderson, Greenwood & Company
TYPE	83 (Direct acting spring loaded)
MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
SET PRESSURE	3,900 psi

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(iii)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	315 psi
(iv)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	1,200 psi
(v)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	3,950 psi
(2) (i)	MANUFACTURER	Hamworthy Compressor Systems
	TYPE	K965/626
	MANUFACTURING STANDARDS	ASTM
	SET PRESSURE	850 psi
(ii)	MANUFACTURER	Hamworthy Compressor Systems
	TYPE	K965/626
	MANUFACTURING STANDARDS	ASTM
	SET PRESSURE	3,950 psi

(C) Pressure Gauges

(1)	MANUFACTURER	Ashcroft & McDaniel
	TYPE	High pressure liquid fill
	MANUFACTURING STANDARDS	ASTM
	DIAL RANGE	0-3,000 psi
(2)	MANUFACTURER	Ashcroft & McDaniel
	TYPE	High pressure liquid fill
	MANUFACTURING STANDARDS	ASTM
	DIAL RANGE	0-2,000 psi

(D) *Hose and Hose Connections*

MANUFACTURER	Compac
TYPE	Synflex
MANUFACTURING STANDARDS	ASTM
DIAMETER	$\frac{3}{8}$ inch
PRESSURE RATING	300 bars (4,500 psi)

(E) *Piping*

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|-----|-------------------------|---|
| (1) | MANUFACTURER/SUPPLIER | Norwalk Company Inc. |
| | MANUFACTURING STANDARDS | ASTM A53 |
| | MATERIAL TYPE | Carbon steel XXS/
Stainless steel |
| | EXTERNAL DIAMETER | $\frac{1}{2}$ inch |
| | PRESSURE RATING | 8,390 psi |
| | TEST PRESSURE | 6,000 psi |
| (2) | MANUFACTURER/SUPPLIER | Norwalk Company Inc. |
| | MANUFACTURING STANDARDS | ASTM A53 |
| | MATERIAL TYPE | Carbon steel XXS/
Stainless steel |
| | EXTERNAL DIAMETER | $\frac{1}{4}$ inch |
| | PRESSURE RATING | 8,390 psi |
| | TEST PRESSURE | 6,000 psi |

(F) *Vehicle Fuelling Connection*

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|-----|-------------------------|---------------------|
| (1) | MANUFACTURER | Compac |
| | TYPE | AR |
| | MANUFACTURING STANDARDS | ASTM |
| | SIZE | $\frac{9}{16}$ inch |
| | PRESSURE RATING | 4,000 psi |
| (2) | MANUFACTURER | Compac |
| | TYPE | NZ |
| | MANUFACTURING STANDARDS | ASTM |
| | SIZE | $\frac{7}{16}$ inch |
| | PRESSURE RATING | 4,000 psi |