

Buenos Aires, March 17, 1995

PURSUANT TO Law 24076, and,

WHEREAS:

Currently, there are national and international entities technically qualified for carrying out quality certification.

Such entities issue quality standards of voluntary compliance which when adequately applied facilitate acceptance of goods and services certified by virtue of those standards in most foreign markets.

Regardless of the previous statements, fostering the creation of an efficient quality certification and accreditation system is recommended, especially as regards the manufacture of equipment, appliances and fittings fueled by natural gas, liquefied petroleum gas, compressed natural gas (CNG) and plastic tubing.

To that effect, a Certification Organizations Registry will be made up for complying with the normative in force.

The regulatory authority implies the responsibility of establishing the accreditation conditions to be met by those persons intending to act as Certification Organizations within such Registry.

These Entities shall be in charge of planning, coordination, administration and integral execution of works related to the approval and quality certification of gas related products, guaranteeing compliance with any standard applied by the Regulatory Entity.

Such standards must be complied with, for example, by the Certification Organizations, manufacturers, traders, importers and end users.

The ENTE NACIONAL REGULADOR DEL GAS is empowered to issue this Resolution as regards the stipulations of Sections 2, subsection c), 21 and 52, subsections a) and x), of Law 24076.

THEREFORE:

THE ENTE NACIONAL REGULADOR DEL GAS BOARD OF DIRECTORS RESOLVES:  
SECTION 1: "General Conditions for Certification Organizations accreditation" for appliances and fittings fueled by natural gas, liquefied petroleum gas, compressed natural gas (CNG) and plastic tubing included in Annexes I, II, III, IV and V of this document are approved. To that effect, the Certification Organizations Registry (hereinafter, ROC) is hereby qualified.

SECTION 2: ENARGAS Board of Directors shall update the applicable normative in force according to the observations posed by the gas industry individuals.

Determined modifications shall be informed by addenda.

SECTION 3: Communicate, publish, deliver to the NATIONAL BUREAU OF OFFICIAL REGISTRY, and file it.

RESOLUTION ENARGAS Nr. 138.

[Signed by Raul E. García, President. Ente Nacional Regulador del Gas. Eduardo A. Pigretti, Director. Ente Nacional Regulador del Gas. Gilberto E. Oviedo, Director. Ente Nacional Regulador del Gas.]

## ANNEX I

### GENERAL CONDITIONS FOR CERTIFICATION ORGANIZATIONS ACCREDITATION FOR APPLIANCES AND FITTINGS FUELED BY NATURAL GAS, LIQUEFIED PETROLEUM GAS, COMPRESSED NATURAL GAS (CNG) AND PLASTIC TUBING.

#### 1.- GENERAL ASPECTS:

ENARGAS shall consider the applications submitted for registration at the Certification Organizations Registry (hereinafter, ROC) and shall assess them, specifically considering compliance with the following requirements:

1.1. As ROC Certification Organizations, the following persons shall apply:

1.1.1. Those specialized Entities, Institutes and/or Organizations with enough capacity and reliability for managing a certification system according to standards, being objective and impartial not having any direct or indirect interest on or relation to the persons involved in the industry.

1.2. Candidates shall at least:

1.2.1 Be capable of certifying compliance with standards and specifications accepted by this Authority included in Annex II of this Resolution, or those related to products of one or more of the areas stated hereinbelow:

1.2.2.           **Natural gas and/or liquefied petroleum gas appliances**  
                  **Natural gas and/or liquefied petroleum gas fittings**  
                  **Plastic tubing**  
                  **CNG equipment and vessels**  
                  **CNG Fuel System components**

1.2.3. Be capable of rendering the following services:

- a) Certify by prototype tests that products specified in the previous point 1.2.2. comply with specific standards and regulations in force, issue the pertinent certificate including, at least, the information specified in Annex V and send a copy to this Regulatory Authority not later than TEN (10) days as of acceptance.
- b) Assess and supervise quality control system of production, manufacturing plant and/or import of those products for certifying that products launched into the market are of the same characteristics of the approved type.

- c) Issue quality certificates and seals of quality, being responsible for them.
- d) Test product batches and issue any certification required by the normative, notwithstanding their exclusive legal responsibility.
- e) Prepare Technical Specifications for products not considered in the normative in force, to be submitted to ENARGAS for assessment and potential incorporation into standards.

1.2.4. As regards Compressed Natural Gas, Certification Organizations qualified by ENARGAS shall only approve or certify products and/or services submitted by those Manufacturers, Importers and Centers of Cylinders Periodic Inspection accrediting their registration in the Registry of Qualifying Licenses (RMH).

1.2.5. Certification Organizations are qualified for verifying that imported equipment and appliances safety conditions comply with safety conditions stipulated by the normative in force, specific regulations and every provision included herein.

1.2.6. The Certification Organization may carry out tests and/or inspections at own laboratories or at those capable of carrying out those tasks at ENARGAS criteria. In the latter case, the Certification Organization must deliver the list of the selected facilities to this Authority, and they shall comply, at least, with the requirements stipulated in the ISO/IEC Guide 25 : 1990 – General requirements for the competence of calibration and testing laboratories.

## **2.- DATA TO BE SUPPLIED WITH THE APPLICATION:**

### 2.1. General:

2.1.1. Candidate name and address. In case of legal entities, include the Trade Name and Fictitious name (if available), By-Laws duly registered at the Inspection Board of Legal Entities or Authority having jurisdiction, Identity data of partners, Meeting and Board of Directors Minutes including the last position selection and distribution, last two (2) approved balance sheets.

2.1.2. Technical staff payroll of the applying entity, including professional background.

2.1.3. Technological areas in which they can develop

2.1.4. Geographical areas in which they may render the service.

2.1.5. Technical Representatives identity data.

2.1.6. Descriptive diagram of inspection methods, visits schedules and forms model used for drafting inspection records.

2.1.7. Detailed diagram of certification process for each stage and description of safety measures taken for protecting documentation with confidential technical information.

2.1.8. Foreign companies subsidiaries or branches shall also submit the permits for license use and/or qualifications for doing business in the country and register at the ROC.

2.1.9. Commit to comply with standards ISO/IEC provisions or similar ones in force, last editions, in all issues not contrary to this regulation.

2.2. Any modification or alteration of data supplied according to the previous points shall be informed to this Regulatory Authority.

2.3. The Owner and Technical Representatives of the authorized company shall submit an Affidavit stating that they:

2.3.1. Know the conditions on which tests and certification tasks shall be carried out.

2.3.2. Know the standards in force governing the type approval and certifications.

2.3.3. Know the tests protocols and the current methodology as well as the specific rules and type approvals and certification standards.

2.3.4. Undertake the civil, commercial, administrative and criminal liability arising from testing and certification tasks and take an insurance against liabilities to third parties covering the risks for not less than Argentine Pesos FIVE HUNDRED THOUSAND (AR\$ 500,000), at ENARGAS satisfaction. Such insurance shall be approved before qualification for operating as Certifying Entity.

2.3.5. Accept ENARGAS as the exclusive and irrevocable authority having jurisdiction as regards its specific activity, and that ENARGAS, at its sole discretion may suspend or revoke registration and operation of the Certifying Entity within the National Territory.

2.4. The candidate shall attach the annexes included in this document with clarifications and/or observations before authorization as Certification Organization duly signed by its Owners and Technical Representatives.

New methods intended to modernize systems of certification by standards compliance may be eventually submitted for consideration and analysis by ENARGAS that may authorize them once analyzed.

### **3.- PENALTIES:**

ENARGAS reserves the power to apply penalties and the right to revoke granted qualifications notifying the Entity according to the penalties plan included in Annex III.

### **4.- FEES:**

For registration purposes, the Entities shall provide ENARGAS all the applicable fees in force for every stage of the certification, inspection, products tests and seals of quality granting processes.

### **5.- PRODUCTS IDENTIFICATION**

Besides marking stated in the pertinent standards or specifications, each certified product shall be identified with an exclusive and indelible logotype readily visible or by any other means at ENARGAS satisfaction, guaranteeing inalterability and based on the model provided in Annex IV of this Resolution.

Certification Organizations shall furnish the necessary means for preventing undue use, fraud and/or forgery of the products launched into the market.

## ANNEX II

### CERTIFYING TASKS SPECIFICATIONS

#### NATURAL GAS AND LIQUEFIED GAS APPLIANCES:

Hot water tanks anodes	<ul style="list-style-type: none"><li>- Standard of approval for cathodic protection by galvanic anodes. (01)</li><li>- Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one.</li></ul>
Stoves	<ul style="list-style-type: none"><li>- Standard of approval for household gas stoves. (02).</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976)).</li></ul>
Boilers	<ul style="list-style-type: none"><li>- Standard of approval for household boilers. (03)</li></ul>
Hot water tanks	<ul style="list-style-type: none"><li>- Standard of approval for automatic gas boilers. (04)</li></ul>
BT/BTU Heaters	<ul style="list-style-type: none"><li>- Standard of approval for heaters with impervious chamber; vertical ventilation and air inlet, "U" type, balanced. (05)</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976)).</li></ul>
Heaters with gas discharge pipe	<ul style="list-style-type: none"><li>- Standard of approval for gas heaters.</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976))</li></ul>
Open chamber heaters without outer venting	<ul style="list-style-type: none"><li>- Provisional requirements for approval of open chamber heater without outer venting.</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976))</li></ul>
Catalytic heaters	<ul style="list-style-type: none"><li>- Catalytic combustion heaters using gaseous fuels not connected to a discharge pipe. (08)</li></ul>
Central heaters	<ul style="list-style-type: none"><li>- Standard of approval for hot air gas central heaters. (09)</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976))</li></ul>
Refrigerators	<ul style="list-style-type: none"><li>- Standard of approval for gaseous fuels domestic refrigerators. (10)</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976))</li></ul>
Wall boilers	<ul style="list-style-type: none"><li>- Provisional requirements for approval of household gas boilers. (11)</li><li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments</li></ul>

	(International Electrotechnical Commission recommendation 335-1 (1976))
Rotary clothes dryers	- Tests guide. ANSI Standard Z 21.5.1a and Z 21.5.1b. - Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976))



### NATURAL GAS AND LIQUEFIED GAS FITTINGS:

Fast acting latch valve, spherical type for up to 4 bar working pressure	- Standard of approval for medium pressure fast acting latch valves, spherical type. (12) - UG Circular Nr. 184 (08/14/91).
Fast acting valve without external lubrication for low pressure gas installations	- Standard of approval for the construction and tests of fast acting valves without external lubrication for low pressure gas installations. (13)
Natural gas and liquefied gas pressure regulator	- GE-N1-135/92 and minimum requirements for provisional approval of 2 bar pressure regulators
Synthetic material cabinet. Synthetic material door-frame assembly	- GE-N1-137
Diaphragm gas meter	- BS 4161, DIN 3374, UNI 7988, or equivalent ones
Coated steel pipes	- GE-N-108 and IRAM 2502/80
Sealing paste for threaded joints	- Standard of approval for household piping thread sealants. (14)
Saturated glass coating	- GE-N1-108
Piping coating	- GE-N1-108
Open chamber appliances venting manifold systems	- Standard of approval of materials and components to be used for open chamber appliances venting manifold systems. (15)
Hoods for individual pipes	- Standard of approval of materials and components to be used for open chamber appliances venting manifold systems. (15)
Installation of panel gas piping	- Provisional specifications for the approval of panel gas piping installation. (16)
Valves / faucets	- Standard for gas appliances faucets construction and tests. (17) - Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one. - Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one.
Safety devices	- Standard for gas appliances automatic start up and shut down by flame extinction. (18) - Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one. - Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one. - Standard for burners, Annex B, flame controls. (19)
Safety devices with built in faucet	- Standard for gas appliances faucets construction and tests. (17) - Standard for gas appliances automatic start up and shut down by flame extinction. (18) - Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one. - Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one.
Appliances pressure regulators	- Standard for appliances pressure regulators. (20) - Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one. - Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one.
Multi-control valves	- Standard for appliances pressure regulators. (20) - Standard for burners, Annex A, automatic valves. (21) - Standard for gas appliances fittings II test. (22) - Standard for gas appliances automatic start up and

	<p>shut down by flame extinction. (18)</p> <ul style="list-style-type: none"> <li>- Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one.</li> <li>- Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one.</li> <li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976)).</li> </ul>
Appliances thermostat	<ul style="list-style-type: none"> <li>- Standard for gas appliances fittings I test. (23)</li> <li>- Standard for appliances pressure regulators. (20)</li> <li>- Standard for gas appliances automatic start up and shut down by flame extinction. (18)</li> <li>- Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one.</li> <li>- Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one.</li> <li>- Standard for burners, Annex A, automatic valves. (21)</li> <li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976)).</li> </ul>
Solenoid valve	<ul style="list-style-type: none"> <li>- Standard for burners, Annex A, automatic valves. (21)</li> <li>- Whitworth Thread for Gas pipes according to UNI-ISO 7/1 or equivalent one.</li> <li>- Liner Test. Salt spray fog testing according to ASTM B 117 49-T or equivalent one.</li> <li>- Safety of household and similar electric appliances, Part 1. General requirements and amendments (International Electrotechnical Commission recommendation 335-1 (1976)).</li> </ul>
Stationary vessels subjected to pressure	<ul style="list-style-type: none"> <li>- ASME SECTION VIII DIV. 1</li> <li>- AD-MERKBLATT</li> </ul>

#### **PLASTIC TUBING:**

Polyethylene tubing	- Tubes; different diameters up to 250 mm, according to GE-N1-129.
Thermo fusion fittings	- Thermo fusion joint fittings, according to GE-N1-130
Electro fusion fittings	- Electro fusion joint fittings, according to GE-N1-131
Transition fittings	- Transition fittings according to GE-N1-132
Polyethylene valves	- Polyethylene valves according to GE-N1-133
Thermo fusion tools	- Thermo fusion tools and ancillary equipment, according to GE-N1-134.
Polyethylene resins	- Tubes; different diameters up to 250 mm, according to GE-N1-129 "Annex A".

#### **CNG EQUIPMENT AND VESSELS:**

CNG storage steel cylinders to be used in motor vehicles and for CNG service stations	<ul style="list-style-type: none"> <li>- GE-N1-115</li> <li>- IRAM 2526</li> <li>- NGV 2</li> <li>- ISO 4705</li> <li>- CAN/CSA B339</li> </ul>
CNG storage composite cylinders to be	- NGV 2

used in motor vehicles	- CAN/CSA B339 - DOT FRP 2 - NZS-5454
CNG storage steel tubes to be used in CNG service stations and bulk CNG transportation	- ASME SECTION VIII, DIV. 1 or 2 - DOT 3AAX-2400/3855
CNG compression equipment to be used in CNG service stations	- GE-N1-141
CNG dispensers in CNG service stations	- GE-N1-141, Annex 1
CNG dispensers to be used in captive type CNG service stations	- GE-N1-141, Annex 1
Centers of CNG Cylinders Inspection	- GE-N1-144
CNG supply equipment for private use	- GE-N1-141 - NFPA 52

**CNG CONVERSION KIT COMPONENTS:**

CNG Fuel System components for use in motor vehicles: Regulators; manual valves; electro-valves; fittings and tubing	- GE-N1-115; 116 and 117
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**NOTE TO ANNEX II:**

Numbers from 01 to 23 between parentheses refer and correspond to Gas del Estado S.E. standards.

## **ANNEX III**

### **AUDITORY RULES AND PENALTIES FOR CERTIFICATION ORGANIZATIONS**

- 1) ENARGAS or anyone appointed by it shall audit the CERTIFICATION ORGANIZATIONS so as to verify compliance with the normative in force and shall record the compiled data in an Auditory Record.
- 2) Penalties deemed reasonable according to the seriousness of the fault may be applied and they shall include:
  - 2.1) WARNING
  - 2.2) QUALIFICATION WITHDRAWAL (from 1 to 12 months). When two or more warnings were applied during one year.
  - 2.3) FINE: Fines not less than ARGENTINE PESOS TEN THOUSAND (AR\$ 10,000) and up to ARGENTINE PESOS FIVE HUNDRED THOUSAND (AR\$ 500,000) according to the seriousness of the infraction. Fine amount shall be deposited in a banking account duly indicated by ENARGAS.
  - 2.4) DISQUALIFICATION: Final, when fraud or negligence is proved according to Argentine legislation and/or when an Entity has been withdrawn more than THREE (3) times.
- 3) If an anomaly and/or non compliance with the regulations in force is detected, fault curing shall be demanded to the audited CERTIFYING ENTITY according to the pertinent process grounds.
- 4) Violations shall be considered formal and shall disregard fraud or negligence of the audited CERTIFICATION ORGANIZATIONS and/or those persons represented by them, except otherwise stated.
- 5) Penalty enforced in the main administrative office shall constitute a background to consider when incurring in the same infraction.
- 6) Regardless of the penalties application, the CERTIFICATION ORGANIZATIONS shall have to reimburse or compensate for damages to Users plus interests and/or compensate for

damages incurred; and it shall not prevent the Control Authority from initiating proceedings for the fulfillment of those obligations and of any other legal obligation that may correspond.

**ANNEX IV**  
**IDENTIFICATION LOGOTYPE OF APPROVED COMPONENTS**



Picture size shall be in accordance with the approved component measures; size shall not be less than 10 mm length x 6 mm width nor exceed 60 mm x 50 mm.

**ANNEX V**  
**MINIMUM DATA INCLUDED IN THE CERTIFICATES**

**General data:**

- Certification Organization name and license number
- Certificate Number
- Certification license
- Certification date
- Certification expiration
- Applicable standard
- Applying Company name and address
- Technical representative name
- Technical representative license number
- Proceeding type: approval, renewal, modification
- Certified component make and model
- Certified component country of origin

**Technical Characteristics:**

- Required gas type
- Component flow or consumption
- Connections specification
- Constituent materials
- Specific diameters, as corresponds
- Specific thicknesses
- Working pressures
- Safety system
- Coating type
- Any other specific characteristics for technical identification of the certified product

Note: from the above list only the pertinent data corresponding to the certified element shall be considered.