STANDARDS FOR THE LPG INDUSTRY

TYPE OF FACILITY	FACILITY STANDARDS REQUIREMENTS	SAFETY PRACTICES	PRODUCT AND EQUIPMENT
1. REFINERS	**REFINERY, IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**OPERATION OF REFINERY, IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**I. LPG** **For full compliance in this Department Circular is Department Circular No. DC2019-06-0009 - Implementing the Modified Philippine National Standard Specifications for Liquefied Petroleum Gases:** A. PNS/DOE QS 005:2016 ICS 75.160.30 entitled "Petroleum Products - Liquefied Petroleum Gases (LPG) as Non-motor Fuel - Specification; and
2. IMPORTERS	**IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**OPERATION OF IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	B. PNS/DOE QS 012: 2016 ICS 75.160.30 entitled " Petroleum Products - Liquefied Petroleum Gases (LPG) as motor fuel - Specification. **II. PRESSURE VESSEL** **A. LPG Bulk Storage Tank** **For full compliance in this Department Circular is PNS/DOE FS 2:2018 ICS 75. 200 amended by 1:2020 entitled "LPG Refilling Plant - General Requirements".**
3. TERMINAL OR DEPOT OWNER/LESSOR	**IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**OPERATION OF IMPORT TERMINAL AND DEPOT:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**B. LPG Cylinder** For full compliance in this Department Circular are the following: **1.) Steel LPG Cylinder -** a.) PNS 03-1:2020 ICS 23.020.30 entitled " Transportable and refillable steel cylinders for liquefied petroleum gas (LPG) - Part 1: Specification"; b.) PNS 03-1:2020 ICS 23.020.30 entitled "Transportable and refillable steel cylinders for liquefied petroleum gas (LPG) - Part 2: Methods of Requalification"; and c.) PNS 03-1:2020 ICS 23.020.30 entitled "Transportable and refillable steel cylinders for liquefied petroleum gas (LPG) - Part 3: Requirements for Repair".
4. BULK DISTRIBUTOR AND 5. BULK HAULER	**TRANSPORT MOTOR VEHICLE - LORRY TANKS:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**TRANSPORT MOTOR VEHICLE - LORRY TANKS:** 1.) Reference local or internationally accepted standards/codes. 2.) Notarized compliant statement for design and operation signed by designated responsible/authorized officer of the facility.	**2.) Welded Stainless Steel LPG Cylinder** - PNS ISO 18172-1:2014 (ISO published 2007) ICS 23.020.30 entitled "Gas cylinders - Refillable welded stainless steel cylinders - Part 1: Test pressure 6 MPa and below" **3.) Seamless Aluminum Alloy** - PNS ISO 7866: 2014 (ISO published 2012 with Cor. 1: 2014) ICS 23.020.30 entitled "Gas cylinders - Refillable seamless aluminum alloy gas cylinders - Design, construction and testing"; and **4.) Fully Wrapped Fibre Reinforced Composite Gas Cylinders** - PNS ISO 11119-3:2011 (ISO published 2002) ICS 23.020.30 entitled "Gas cylinders of composite construction - Specification and test methods - Pat 3: Fully wrapped fibre reinforced composite gas cylinders with non-load-sharing metallic or non-metallic liners".

STANDARDS FOR THE LPG INDUSTRY

TYPE OF FACILITY	FACILITY STANDARDS REQUIREMENTS	SAFETY PRACTICES	PRODUCT AND EQUIPMENT
6. CYLINDER HAULER	**TRANSPORT VEHICLE - Two and Three-Wheeled (Motorcycle) and Four-Wheeled Transport Vehicle (Truck):** **For full compliance in this Department Circular is DC 2013-09-0022 entitled "Directing all Liquefied Petroleum Gas Industry Participants to Observe Minimum Safety Standards in the Transportation and Distribution of LPG in Cylinders"**	**TRANSPORT OF LPG IN CYLINDER - Two and Three-Wheeled (Motorcycle) and Four- Wheeled Transport Vehicle (Truck):** **For full compliance in this Department Circular is DC 2013-09-0022 entitled "Directing all Liquefied Petroleum Gas Industry Participants to Observe Minimum Safety Standards in the Transportation and Distribution of LPG in Cylinders"**	**Emphasis on inspection of the following permanent markings for steel cylinders which shall remain legible during the lifespan of the cylinder:** 1.) Embossed in the shoulder of the cylinder - Trademark or tradename; 2.) Etched or Stamped on the collars or foot ring or if notpossible, on the plate of the cylinder: a.) Manufacturer's registered Trademark or tradename (if domestically manufactured): b.) Name of importer (if imported); c.) Specific standards used and the year of its edition: d.) Date tested; e.) Thickness of the plate, in millimeters; f.) Cylinder capacity - water capacity in liters and tare weight in kilograms; g.) Design and test pressure, in megapascals; h.) Serial number or code number; i.) Country of manufacture; j.) Type of neck ring used (NGT, SGT, NGS or DIN); and k.) DTI PS or ICC mark.
7. REFILLER	**REFILLING PLANT:** **For full compliance in this Department Circular is PNS/DOE FS 2:2018 ICS 75. 200 Amemnded by 1:2020 entitled "LPG Refilling Plant - General Requirements"** **Emphasis on the compliance of the Following:** 1.) LPG Bulk Storage Tank; 2.) Cylinder Refilling Facility; 3.) Piping, Valves and Equipment: 4.) Electrical Systems; 5.) Buildings and Structures Housing LPG Distribution Facilities; 6.) Pressure Relief Devices; 7.) Maintenance; 8.) Fire and Leak Detection, Protection, Safety and Security; and 9.) Annexes of this PNS. **All LPG storage facilities shall be clearly marked with notices on each externally visible side and presence at entrances to storage area indicating the presence of LPG. These notices shall indicate:** (1)A warning notice – "Highly Flammable LPG"; (2) The warning symbol - For Flammable Gas; (3) The prohibition sign – No smoking or naked flames, no cellphones and cameras; and (4) Emergency contact numbers in case of gas leaks or fire: BFP, nearest hospital, LGU (Disaster Risk Reduction and Management Office).	**OPERATION OF REFILLING PLANT:** **For full compliance in this Department Circular is the Code of Safety Practice in LPG Refilling Plant completed and signed by the DOE-OIMB and the Industry Stakeholders on November 9, 2017.** **Emphasis on the compliance of the Following:** 1.) Tank Truck and Lorry Procedure; 2.) Cylinder Refilling Procedure: 3.) LPG Cylinder Housekeeping; 4.) Fire Drills and Fire Marshall: 5.) Personnel Training Requirements; and 6.) Annexes of this Code.	3.) Durable markings printed in silk-screen. or other equivalent technology on the body of the cylinder: a.) Trademark or tradename; b.) Net content in kilogram; c.) Tare weight in kilogram; d.) Date of next requalification (MM/YYYY); and e.) For cylinders fitted with direct burner attachment (e.g. camping-type), regardless of size and capacity, shall have the additional marking: "FOR OUTDOOR USE ONLY" with the recommended font size at the minimum of four (4) millimeters. **Emphasis on inspections of the following markings for welded stainless steel cylinders which shall remain legible during the lifespan of the cylinder:** 1.) PNS Number (Ex. PNS xxxxx); 2.) For a cylinder which is normalized, this symbol is stamped immediately after the PNS Number; 3.) For a cylinder which is stress relieved "S". For a cylinder which is stabilized "SB", this symbol is stamped immediately after the PNS Number (Ex. S or SB); 4.) Country of origin/manufacturer; 5.) Manufacturing serial number: number to clearly identify the cylinder; 6.) Test pressure; 7.) Inspection stamp of competent body; 8.) Test date: year and month of testing; 9.) Water capacity; 10.) Tare weight; 11.) Requalification date;
8. MARKETER AND **9. DEALER**	**WAREHOUSE/SHOWROOM/DEALER's OUTLET:** **STRUCTURAL REQUIREMENTS (Open Air Storage or Buildings, as applicable)** 1.) Building shall be made up of predominantly non-combustible material (Concrete/Steel); 2.) Building should not be part of a Theatre, School, Hotel, Supermarket or a place of worship; 3.) LPG cylinders should preferably be stored in a well-ventilated or open air and ground level location; 4.) The storage area should be protected by an adequate security fence to prevent trespassing and vandalism or unauthorized person. Recommended minimum height of 1.8 meters; 5.) In cases storage cannot comply for separation distances, a firewall may be considered to reduce separation distances; 6.) Fire walls must be imperforate and substantially constructed from brick, reinforced concrete, or such other materials so that they have a standard of fire resistance of not less than 30 minutes. They shall be at least as high as the height of the highest stack of cylinders stored, but should be not more than 2.5 meters high. They shall be of such a length that the distance from any cylinder to boundary or fixed ignition source measured around the end of the wall is not less than the separation distances specified in Table 9 of PNS/DOE FS 2:2018 Amd. 1:2020;	**OPERATION AND SAFETY PRACTICE OF THE WAREHOUSE/SHOWROOM/OUTLET:** **A. CYLINDER STORAGE** 1.) Filled cylinders to be stored shall comply with PNS:03 entitled "Transportable and refillable steel cylinders for liquefied petroleum gas (LPG) - Part 1:Specification", PNS ISO 18172-1:2014 entitled "Refillable Welded Stainless Steel Cylinders - Part 1: Test Pressure 6 MPa and Below", PNS ISO 7866:2014 entitled "Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing", and PNS ISO 11119:2011 entitled "Gas cylinders of composite construction - Specification and test methods - Pat 3: Fully wrapped fibre reinforced composite gas cylinders with non-load-sharing metallic or non-metallic liners."; 2.) Cylinders stored in buildings shall not be located near exits, near stairways, or in areas normally used, or intended to be used, for the safe egress of occupants; 3.) Cylinders in storage shall be located to minimize exposure to excessive temperature rises, physical damage, or tampering; 4.) Cylinders may be stacked against a fire wall provided the quantity involved is 400 kg or less. For quantities of more than 400 kg, a 1.0 m space should be maintained between the stacked cylinders and fire wall to allow inspection and access to leaking cylinder; 5.) All cylinders store upright with valves in the uppermost position (for filled and empty); and 6.) Valves of both filled and empty cylinders should always be closed while in storage (referring to POL valve type).	12.) Where the cylinder is designed for commercial butane; and 13.) Additional stamp markings as required by the customer. **Emphasis on inspection of the following permanent markings for seamless alluminum alloy cylinders which shall remain legible during the lifespan of the cylinder:** 1.) Standard (PNS/ISO Number); 2.) Country of Manufacture; 3.) Manufacture's Identification; 4.) Serial Number; 5.) Stamp for non-destructive examination; 6.) Identification of steel compatibility; 7.) Test Pressure; 8.) Inspection Stamp - Identity mark or stamp of the authorized inspection body; 9.) Initial Test Date; 10.) Empty/Tare Weight; 11.) Water Capacity; 12.) Identification of cylinder thread; and 13.) Minimum guaranteed wall thickness. ***Note: Each cylinder shall be permanently marked on the shoulder in accordance with ISO 13769-2018 or in accordance with the relevant marking regulations of the country or countries of use.**

STANDARDS FOR THE LPG INDUSTRY

TYPE OF FACILITY	FACILITY STANDARDS REQUIREMENTS	SAFETY PRACTICES	PRODUCT AND EQUIPMENT
	7.) The floor of the storage area should be level, free from depressions and compacted or paved with a suitable materials and design to carry the expected load; 8.) The position chosen for storage shall be at ground level and never below it in cellars or basement and be readily accessible; 9.) The fire wall may be a wall of a building, in which case the following additional requirements must be met: a. There must be no openings in the wall above the cylinders stored or within 2 meters horizontally; b. There must be no overhanging eaves or similar projections constructed from combustible materials above any stored cylinder; and c. No external stairway or fire escape shall be positioned above cylinders or allowed to terminate in the storage area. 10.) Any loading platform, and any roof provided over a storage place, shall be predominantly constructed from non-combustible materials; 11.) The gas leak detector must be mounted at the lower portion of the wall; and 12. All LPG storage facilities shall be clearly marked with notices on each externally visible side and presence at entrances to storage area indicating the presence of LPG. These notices shall indicate: (1) A warning notice – "Highly Flammable LPG"; (2) The warning symbol - For Flammable Gas; (3) The prohibition sign – No smoking or naked flames, no cellphones and cameras; and (4) Emergency contact numbers in case of gas leaks or fire: BFP, nearest hospital, LGU (Disaster Risk Reduction and Management Office). **For guidance on the Typical Dealer's Warehouse Layout, refer to Annex F-5.**	**B. CYLINDER STACKING** 1.) Maximum stacking for 11 kgs cylinder at 3 layer. (for filled or empty); 2.) Maximum stacking for 1kg to 2.7kgs cylinder at 6 layer. (for filled or empty and those cylinders with collar ring design); 3.) Maximum stacking for 22 kg cylinders at 2 layer. (for filled or empty); 4.) Single stacking for 50 kg cylinders (for filled or empty); 5.) Maximum for cylinder cluster is 10 rows by 10 rows for 11kg to 50kg cylinders; and 6.) Maximum aggregate quantity of LPG stored inside a building is 5,000kgs. **C. SAFETY AND INFORMATIONAL SIGNS** 1.) LPG cylinders for display should not be kept beside flammable materials, staircases, exits, or anywhere that might obstruct an escape route; 2.) Naked lights or smoking should be strictly prohibited anywhere near the displayed cylinder; 3.) Safety signages properly displayed: a. Highly Flammable; b. No Smoking; c. No cellphone, lighters, matches and cameras allowed; d. Emergency contacts and procedure; and e. Unauthorized person not allowed. 4.) Emergency Response Procedures and Emergency phone numbers shall be visibly displayed; 5.) Available at least 1 x 20 lbs Dry Chemical Powder Fire Extinguishers and in good working condition and are readily accessible; 6.) Access of vehicles and mechanical handling equipment into the storage area must be strictly controlled to prevent collision with cylinders; 7.) Hazardous and other known flammable products other than LPG should be stored separately in adequate distance; 8.) Filled and Empty cylinders are properly segregated; 9.) There should be enough gang way for access of personnel during inspection and emergency; and 10.) Signage of filled and empty cylinders clearly displayed. **D. PERSONNEL AND EQUIPMENT** 1.) There should be a Safety Officer designated and trained by the LPG Company for emergency and material handling for LPG product; 2.) All staff in the Distributor warehouse should be trained on Emergency Response Procedure; 3.) There should be at least 2 x 20 lbs Dry Chemical Powder Fire Extinguishers. They should be in good working condition and are readily accessible; 4.) All staff operating in the warehouse should be knowledgeable to use Fire Extinguishers in case of fire; 5.) All staff handling cylinders should wear the proper PPE (Pants and cotton shirt preferably made of static-free fabric, safety shoes and gloves); and 6.) The security guard should know the Emergency Response Procedures.	**Emphasis on inspection of the following permanent markings for Fully Wrapped Fibre Reinforced Composite Gas Cylinders which shall remain legible during the lifespan of the cylinder:** 1.) Standard (PNS/ISO Number); 2.) Country of Manufacture; 3.) Manufacture's Identification; 4.) Serial Number; 5.) Stamp for non-destructive examination; 6.) Identification of steel compatibility; 7.) Test Pressure; 8.) Inspection Stamp - Identity mark or stamp of the authorized inspection body; 9.) Initial Test Date; 10.) Empty/Tare Weight; 11.) Water Capacity; 12.) Identification of cylinder thread; and 13.) Minimum guaranteed wall thickness. ***Note: Each cylinder shall be permanently marked on the shoulder and in accordance with ISO 13769-2018.** **Emphasis on external inspection of LPG Cylinder defects which will require order of confiscation for requalification:** a.) Dents; b.) Cuts, gauges and digs; c.) Bulges; d.) Corrosion; e.) Leaks; f.) Fire damage; g.) Neck ring defects; h.) General distortion; and i.) Appurtenances. **C. LPG Cartridge** **For full compliance in this Department Circular is PNS EN 417: 2016 ICS 23.020.30 entitled "Non-refillable gas cartridges for liquefied petroleum gases (LPG) with or without a valve for use with portable appliances - Construction, inspection, testing and marking".** 1.) Shall be non-refillable, single trip, and for one-time use only; and 2.) Shall have durable markings such as stenciling by using ink or paint, or labelling through other suitable methods. **Emphasis on inspection of the following durable markings for cartridge:** a.) Name of mark of the company responsible for puting the product on the market; b.) Commercial designation and type of the cartridge; c.) Type of gas contained in letters not less than 3mm high (i.e. butane or propane or mixture); d.) Net weight of gas contained in grams; e.) Indication (code) for iden+F14tification of the filling batch; f.) "Warning: Do Not Refill"; g.) "Protect from Sunlight"; h.) "Do Not Expose to Temperatures exceeding degree Centigrade; i.) "Do Not Puncture, Pierce or Incinerate After Use"; and j.) "EN 417 Compliant". **III. ANCILLARY EQUIPMENT** **1.) Seals** a. Shall have distinctive design, symbol, emblem, or mark, identifying the LPG cylinder owner; b. Shall be made of LPG resistant material; and c. Shall be broken or destroyed before LPG product can flow out of the cylinder. **2.) Hoses** a. Shall be made of LPG resistant materials; and b. Shall have DTI PS or ICC Mark and properly marked with the name of the manufacturer or importer as the case may be.

STANDARDS FOR THE LPG INDUSTRY

TYPE OF FACILITY	FACILITY STANDARDS REQUIREMENTS	SAFETY PRACTICES	PRODUCT AND EQUIPMENT
10. RETAILER	**RETAILER'S OUTLET:** STRUCTURAL REQUIREMENTS (Open Air Storage or Buildings as applicable) 1.) Building shall be made up of predominantly non-combustible material (Concrete/Steel); 2.) Building should not be part of a Theatre, School, Hotel, Supermarket or a place of worship; 3.) Store should be well ventilated; 4.) Minimum floor area for filled and empty LPG cylinders is two (2) square meters. (excluding area for cashier's booth and display area); 5.) The gas leak detector must be mounted at the lower portion of the wall; and 6.) No Drains or opening shall be allowed in the floor of the building. *All LPG storage facilities shall be clearly marked with notices on each externally visible side and presence at entrances to storage area indicating the presence of LPG. These notices shall indicate: (1) A warning notice – "Highly Flammable LPG"; (2) The warning symbol - For Flammable Gas; (3) The prohibition sign – No smoking or naked flames, no cellphones and cameras; and (4) Emergency contact numbers in case of gas leaks or fire: BFP, nearest hospital, LGU (Disaster Risk Reduction and Management Office).	**OPERATION AND SAFETY PRACTICE AT RETAIL OUTLET:** **A. CYLINDER STORAGE** 1.) Filled cylinders to be stored shall comply with PNS:03 entitled "Transportable and refillable steel cylinders for liquefied petroleum gas (LPG) - Part 1:Specification", PNS ISO 18172-1:2014 entitled "Refillable Welded Stainless Steel Cylinders - Part 1: Test Pressure 6 MPa and Below", PNS ISO 7866:2014 entitled "Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing", and PNS ISO 11119:2011 entitled "Gas cylinders of composite construction - Specification and test methods - Pat 3: Fully wrapped fibre reinforced composite gas cylinders with non-load-sharing metallic or non-metallic liners."; 2.) Cylinders must be stored upright with valves in the uppermost position (for filled and empty); and 3.) Valves of both filled and empty cylinders should always be closed while in storage (referring to POL valve type). **B. CYLINDER STACKING** 1.) Maximum aggregate quantity of LPG storage inside the establishment is 350 kgs for all brands and sizes; 2.) Maximum aggregate quantity of LPG storage in an establishment with other merchandise is 110 kgs for all brands and sizes; 3.) Maximum stacking for 1 kg to 2.7kgs cylinder at 6 layer. (for filled or empty and those cylinders with collar ring design); 4.) Maximum stacking for 22 kg cylinders at 2 layer. (for filled or empty); and 5.) Single stacking for 50 kg cylinders (for filled or empty). **For guidance on Retail Outlet Classification and Maximum Floor Stock Requirement, refer to Annex G-6.** **C. SAFETY AND INFORMATIONAL SIGNS** 1.) LPG cylinders for display should not be kept beside flammable materials, staircases, exits, or anywhere that might obstruct an escape route; 2.) Naked lights or smoking should be strictly prohibited anywhere near the displayed cylinder; and 3.) Safety signages properly displayed: a. Highly Flammable; b. No Smoking; and c. Emergency contact numbers and procedure. 4.) Emergency Response Procedures and Emergency phone numbers shall be visibly displayed. **D. PERSONNEL AND EQUIPMENT** 1.) Staff should be knowledgeable to use Fire Extinguisher; 2.) Available at least 1 x 20 lbs Dry Chemical Powder Fire Extinguishers and in good working condition and are readily accessible; 3. All staff handling cylinders should wear the proper PPE (pants and cotton shirt preferably made of static -free fabric, safety shoes & gloves); and 4.) There shall be no other fuels or combustible product/chemical to be stored inside the LPG Retail Outlet.	**3.) Valves and Regulators** a. Shall be made of LPG resistant materials; b. Shall have DTI PS or ICC Mark and properly marked with the name of the manufacturer or importer, as the case may be; and c. Shall be properly marked with "on-off" gas flow direction. **IV. MEASURING DEVICES** 1.) Test weight and weighing scale shall have an annual calibration certificate from DOST or manufacturer of such measuring devices for accuracy; and 2.) Shall be accurate to at least one-tenth (0.1) of one kilogram. **V. PERSONAL PROTECTIVE EQUIPMENT** Shall be made of materials that prevent hazards and minimize exposure that can cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. Personal protective equipment may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests and full body suits. **PPE necessary for LPG Inspection includes the following:** 1.) Reflectorized jacket; 2.) Safety shoes/skid-proof field shoes;
11. AUTO-LPG DISPENSING STATIONS	**AUTO-LPG DISPENSING STATION:** **For full compliance in this Department Circular is PNS/DOE FS 3:2006 ICS 75.200 entitled "Auto-LPG Dispensing Stations"** **Emphasis on the compliance of the following:** 1.) LPG Tank and Tank Foundation; 2.) Warning Signs and Notices; 3.) Fittings and Nozzles; 4.) Pumps; 5.) Dispensing Systems; 6.) LPG Piping Requirements; 7.) Testing and Commissioning; 8.) Ignition Source Control; 9.) Re-qualification and Maintenance; 10.) Fire Protection System; and 11.) Safety Management System.	**OPERATION OF AUTO-LPG DISPENSING STATION:** **For full compliance in this Department Circular is PNS/DOE FS 9:2016 ICS 75.200 entitled "Code of Safety Practice in Auto-LPG Dispensing Station"** **Emphasis on the compliance of the following:** 1.) Safety Practices during delivery and receiving of product from tank truck; 2.) Safety Practices on Auto-LPG Dispensing Station; 3.) Auto-LPG Dispensing Station equipment and tools; and 4.) Other requirements.	

STANDARDS FOR THE LPG INDUSTRY

TYPE OF FACILITY	FACILITY STANDARDS REQUIREMENTS	SAFETY PRACTICES	PRODUCT AND EQUIPMENT
12. CENTRALIZED LPG PIPING SYSTEM	**1.) Comply with NFPA 54 entitled "National Fuel Gas Code" or any other national or internationally accepted codes and standards specifically for:** a. Piping design, materials, and components; b. Pipe sizing and installation for underground, aboveground or concealed; c. Piping system inspection and testing; and d. Metering system and supports. **2.) Comply with NFPA 58 entitled "Liquefied Petroleum Gas Code" or any other national or internationally accepted codes or standards for LPG installations, specifically for tank farm and safety requirements.**	1.) Reference local or internationally accepted standards/codes 2.) Notarized statement of compliance with internationally-accepted standards or local code of safety practices signed by designated responsible/authorized officer of the facility	
13. BULK CONSUMER	**1.) Comply with NFPA 54 entitled "National Fuel Gas Code" or any other national or internationally accepted codes and standards specifically for:** a. Piping design, materials, and components; b. Pipe sizing and installation for underground, aboveground or concealed; c. Piping system inspection and testing; and d. Metering system and supports. **2.) Comply with NFPA 58 entitled "Liquefied Petroleum Gas Code" or any other national or internationally accepted codes or standards for LPG installations, specifically for tank farm and safety requirements.**	1.) Reference local or internationally accepted standards/codes 2.) Notarized statement of compliance with internationally-accepted standards or local code of safety practices signed by designated responsible/authorized officer of the facility	