

## MINISTRY OF ENERGY AND ENERGY INDUSTRIES



### GUIDELINES AND APPLICATION PROCEDURE FOR LPG STORAGE

Obtaining approval for the installation of hydrocarbon storage tanks in excess of 100 Imperial Gallons is a legal requirement.

All applications for such installations should be addressed to:

Chief Mechanical Engineer  
HSE/Measurements Division  
Ministry of Energy and Energy Industries  
Maska Building  
South Trunk Road  
**LA ROMAINE**

Telephone No: 1-868-697-1275/0546/1484; Fax: 1-868-697-7013

and should include:-

1. Application letter – indicating:
  - ✓ location of storage
  - ✓ product to be stored
  - ✓ quantity to be stored
  - ✓ use of storage
2. Site Plan – showing location of tank in relation to boundary lines and structures on the compound.
3. Isometrics of LPG supply lines and sprinkler system.
4. Fire Service Report from the Fire Prevention Department of the Trinidad and Tobago Fire Service.

#### GENERAL

1. All LPG supply lines should be colour coded yellow.
2. All LPG supply lines must be pressure tested and certified by an authorized representative of the Industrial Inspections Supervisor.

3. All LPG cylinders more than ten years old must be pressure tested and certified every five years.
4. LPG tanks must be labelled indicating capacity and content.
5. Nameplate of tanks should provide the following information:-
  - a. capacity
  - b. outside surface area
  - c. steel thickness and head thickness
  - d. manufacturer's serial no.
  - e. date of manufacture
6. Unodorized LPG Cylinders should be marked 'NOT ODORIZED'.
7. Relieving capacity of relief valves should be in accordance with NFPA 58. (As a function of tank surface area)
8. All tanks must be site certified by an authorized representative of the Industrial Inspection Supervisor.
9. All piping (including hose fittings and valves) should comply with NFPA 58.
10. Piping designed for liquid draw-down must be fitted with hydrostatic relief valves between shut-off valves.
11. Containers must be sited/spaced in accordance with NFPA 58.
12. Regulators installed inside buildings must be vented to the outside with the discharge outlet located at least 3m from any source of ignition.
13. All electrical installations within 3m of a LPG storage container must be of the explosion proof type (or be relocated).
14. The absence of adequate ventilation of storage areas might necessitate the installation of LPG detectors attached to alarms which can be audible in the main office of the premises and general work area.
15. All other installations should be in accordance with NFPA 58.
16. All installations must be done by a competent LPG contractor. All personnel whose duties fall within the scope of the NFPA 58 must acquire the relevant training which must be documented e.g. transfer and transport personnel etc.
17. All auxiliary equipment (e.g. pumps, compressors) to be installed within 3m of the LPG storage area should be recommended for Class I Division I area and be designed for LPG service.

October 23, 2006