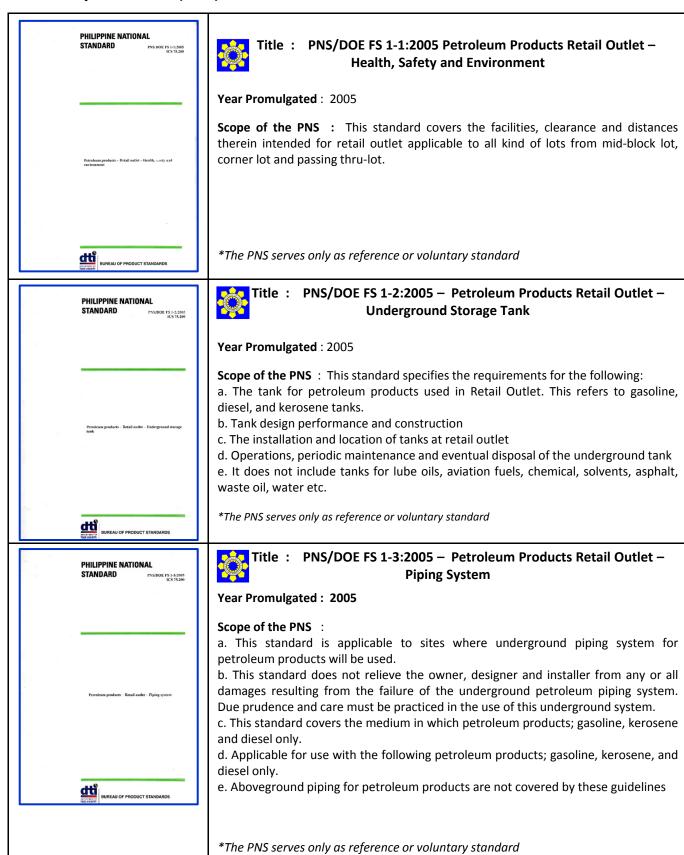
### SUMMARY OF APPLICABLE STANDARDS

### **B. Facility Standards (PNS)**







## Title: PNS/DOE FS 1-4:2005 - Petroleum Products Retail Outlet - Dispensing Pumps

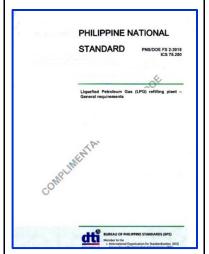
Year Promulgated: 2005

#### Scope of the PNS:

This standard specifies:

- a. The design, installation and commissioning of self-contained dispensing pumps (suction pump) and dispenser (pressurized pump), and the connection of product supply pipework, hoses, nozzles, electrical wiring and communication cables;
- b. The operation, periodic maintenance, decommissioning and eventual disposal of the aboveground dispensing pumps and dispensers; and
- c. The requalification of reconditioned pumps.

\*The PNS serves only as reference or voluntary standard





## Title: PNS/DOE FS 2:2018 - LPG Refilling Plant - General Requirements

Year Promulgated: 2018

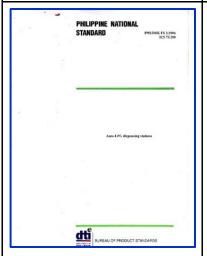
**Scope of the PNS**: This standard covers the requirements for the installation of an LPG refilling plant, including the associated bulk storage area and tank farm facility.

NOTE 1 This standard does not cover refrigerated storage facilities.

NOTE 2 Any Auto-LPG dispensing system to be located within an LPG refilling plant shall be separated from the latter by a firewall and shall be provided a separate access.

NOTE 3 The requirement for the installation and conduct of dispensing of LPG for vehicles are covered by a separate standard, PNS for Auto-LPG Dispensing Stations.

\*The PNS serves only as reference or voluntary standard





Title: PNS/DOE FS 3:2006 - Auto-LPG Dispensing Pumps

Year Promulgated: 2006

**Scope of the PNS**: This standard covers the requirements for the installation of auto-LPG dispensing stations for retail operation and garage-based sites for on vehicle dispensing of LPG for vehicles of any type.

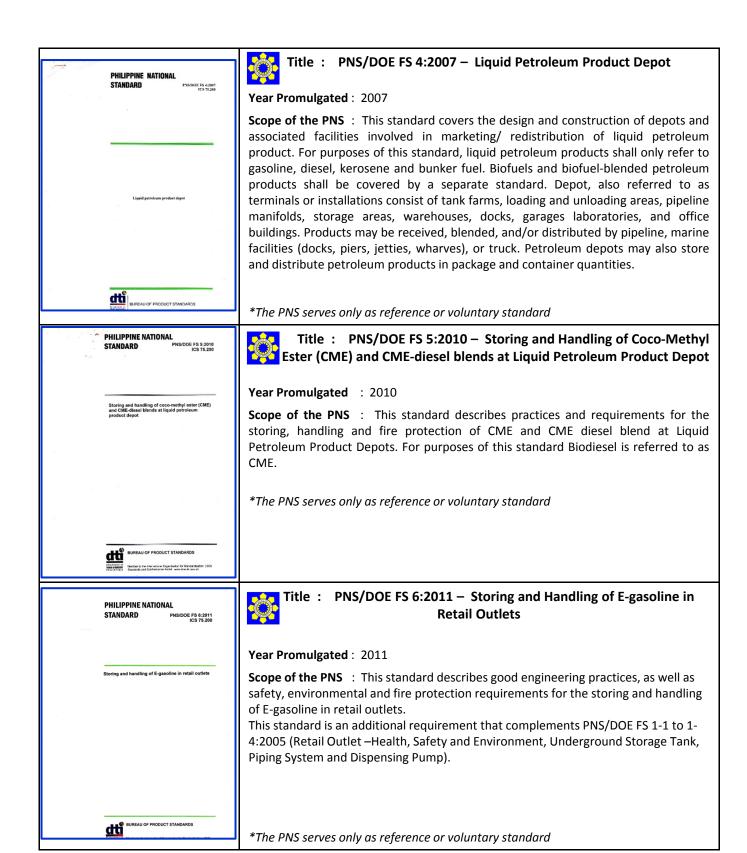
If any dispensing for the general public can occur, the installation becomes a retail station as defined, and specific additional requirements apply. The additional requirements for retail station is to adequately ensure public safety attendant to the nature of operation.

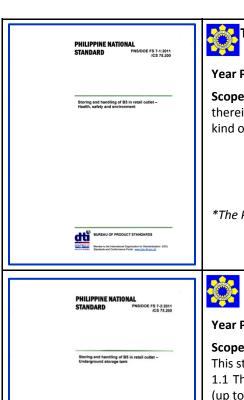
This standard does not apply to forklift cylinder refilling. Only fixed and vehicle-mounted fuel tanks are permitted for filling at dispensing stations.

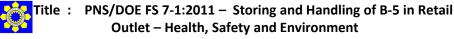
LPG cylinders for household use shall not be allowed for refill in an auto-LPG dispensing station.

NOTE 1 Since refilling stations may at times be located in commercial or residential areas having sensitive occupancies, certain planning and land use requirements apply.

\*The PNS serves only as reference or voluntary standard







Year Promulgated: 2011

**Scope of the PNS**: This section covers the facilities, clearances and distances therein intended for retail outlets storing and handling up to B5 and applicable to all kind of locations either with mid-block lot, corner lot and passing-thru lot.

\*The PNS serves only as reference or voluntary standard

# Title: PNS/DOE FS 7-2:2011 Storing and Handling of B-5 in Retail Outlet – Underground Storage Tank

Year Promulgated: 2011

#### Scope of the PNS:

This standard specifies the requirements for the following:

- 1.1 The tank for petroleum products used in retail outlet, refers to gasoline, diesel (up to B5), and kerosene tanks. It does not include tanks for lube oils, aviation fuels, chemicals, solvents, asphalt, waste oil, water etc.
- 1.2 Tank design performance and construction.
- 1.3 The installation and location of tanks at retail outlet.
- 1.4 Operations, periodic maintenance and eventual disposal of the underground tank.

\*The PNS serves only as reference or voluntary standard





# Title: PNS/DOE FS 7-3:2011 – Storing and Handling of B-5 in Retail Outlet – Piping System

Year Promulgated : 2011

#### Scope of the PNS

- 1.1 These recommended guides and procedures are applicable to sites where underground piping system for petroleum products will be used.
- 1.2 These recommendations do not relieve the owner, designer and installer from any or all damages resulting from the failure of the underground petroleum piping system. Due prudence and care must be practiced in the use of this underground system.
- 1.3 This document covers the medium in which petroleum product shall be conveyed from the point where the product is received on its way to its storage tank, from the storage tank to the final point of connection at the dispensing pump, and tank ventilation.
- 1.4 These guides are applicable for use with the following petroleum products; gasoline, kerosene and diesel only.
- 1.5 Above ground piping for petroleum products are not covered by these guidelines.

\*The PNS serves only as reference or voluntary standard





# Title: PNS/DOE FS 7-4:2011 – Storing and Handling of B-5 in Retail Outlet – Dispensing Pumps

Year Promulgated: 2011 Scope of the PNS:

- 1.1. This standard shall include the design, installation and commissioning of self contained dispensing pumps (suction pump) and dispenser (pressurized pump), and the connection of product supply pipework, hoses and nozzles, electrical wiring and communication cables.
- 1.2. Operation, periodic maintenance, decommissioning and eventual disposal of the aboveground dispensing pumps and dispensers.
- 1.3. Requalification of reconditioned pumps.

\*The PNS serves only as reference or voluntary standard

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Petroleum products – Transportation by pipeline





# Title: PNS/DOE FS 8:2013 Transportation of Petroleum Product by Pipeline

Year Promulgated: 2013

Scope of the PNS: This standard covers operation and maintenance, reporting requirements and other applicable provisions in the on-shore transportation via pipeline (as defined hereafter) of liquid petroleum products for white (such as but not limited to gasoline, diesel, kerosene and jet A-1) and (such as but not limited to) black (bunker fuel) products to ensure the safety of the general public and pipeline workers and the protection of the environment against the risk of petroleum contamination, fire and other similar hazards in areas where the pipeline system operates and/or traverses.

An operator may make arrangements with a third party for the performance of any action required by this standard. However, the operator is not thereby relieved from the responsibility for compliance with any requirement of the same.

\*The PNS serves only as reference or voluntary standard