



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

ENGINEERING STANDARD
FOR
LIGHTNING PROTECTION SYS. DESIGN

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1 SCOPE

This standard describes the general requirements for lightning protection in the petrochemical plants.

2 STANDARDS AND CODES

Following codes and standards shall be applied for lightning equipment and installation:

- NFPA National Fire Protection Association,
NFPA 78 Lightning Protection Code.

STRUCTURES LIGHTNING PROTECTION

- 1.1 Any structure within a zone of protection may be considered to be adequately shielded against lightning so that further protection is not required.
- 1.2 Important structures not within a zone of protection, i.e., not shielded, shall be protected against damage from lightning. The following structures are considered important:
 - a) Structures which are normally occupied by personnel.
 - b) Structures which contain appreciable quantities of flammable and combustible materials.
 - c) Structures which if seriously damaged could result in a major loss either in the structure itself or from the effect on other facilities.

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