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NATIONAL PETROCHEMICAL COMPANY STANDARDS

ENGINEERING STANDARD FOR CABLE SELECTION & DESIGN CRITERIA

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1 SCOPE

This standard describes the general requirements for design criteria and selection of electrical cables and wires for use in petrochemical plants.

2 STANDARDS AND CODES

IEC, NEMA and NEC standards shall be applied for cable design criteria and cable selection. Where reference is made to any standard and code herein, it is understood that equivalent IEC standard is preferable.

3 GENERAL

3.1. At any early stage of the area plot plan development, reservation of appropriate routings and adequate, space for underground and/or aboveground cable installations shall be made in cooperation with engineering parties concerned.

3.2 To this end a dimensional cable routing plan shall be prepared, indicating adjacent facilities such as drainage, sewerage, pipe tracks, concrete foundations and instrument cable routings.

3.3 When designing cable networks, the cable types shall be determined corresponding to the required duties,, taking into account the possibility of soil contamination and chemical attack. This may, not only affect the choice of cable routings and the kind of installation (aboveground or underground) , but also the cable types.

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