



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
ANNUNCIATION/ALARM PANEL BOARDS

NPCS-MS-EL-12

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1 SCOPE

- 1.1 The intent of this standard is to define the minimum requirements for the design, manufacture, testing and supply of annunciation/alarm panel boards.
- 1.2 In case of conflict between documents listed below, the ones appearing first in sequence of this listing will precede over the following ones:
- a) Purchase order.
 - b) Interconnection diagrams.
 - c) This material standard.
 - d) Other standards and specifications referred to in the above documents.
 - e) Vendor drawings.
- 1.3 All documentation shall be issued, using SI metric system of measurement, according to NPC-ES-GN-03.
- 1.4 The English language shall be used for all correspondence documents, catalogues, drawings, nameplates and annunciator labels.
- 1.5 In the reference number of this standard purchaser means National Petrochemical Company of Iran "NPC".

2 STANDARDS AND CODES

- 2.1 The equipment shall conform with the requirements of the following standards and codes:
- IEC International Electrotechnical Commission.
 - IEC 439 Factory Built Assemblies of LV Switchgear and Controlgear.
 - IEC 529 Classification of Degree of Protection Provided by Enclosures.

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- ISA

Instrument Society of
America.

ISA 18.1,

Annunciator Sequence and
Specifications.

2.2

The equipment as a whole may conform with the national standards of the country of manufacturer provided these standards are based on the ISA recommendations.

2.3

Vendor shall state in the quotation the standards to which the equipment conforms. If these are the national standards, then vendor shall state in the quotation the deviations, if any, from the relevant ISA recommendations.

3

SERVICE AND ENVIRONMENTAL CONDITIONS

3.1

The annunciator panel will be installed in substation rooms which will be ventilated and air conditioned to provide clean, dust free air. Ambient temperature will be within the limits of IEC 439.

3.2

Climate conditions, design temperature, relative humidity, atmospheric details and altitude will be specified in the requisition. The annunciator panel shall stand these conditions while in transport, storage, installation and during an upset of air conditioning.

4

GENERAL REQUIREMENTS

4.1

FABRICATION AND GENERAL DETAILS

4.1.1

The panel shall be free standing or wall mounted type as what will be specified in the material requisition.

4.1.2

The panel shall be naturally ventilated, totally enclosed dust and verminproof.

4.1.3

The panel shall have minimum degree of protection IP 41 according to IEC 529.