



Process Industry Practices  
Electrical

**PIP ELIGD000**  
**Grounding Installation Details**

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## PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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## Process Industry Practices Electrical

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## 1. Introduction

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### 1.1 Purpose

The purpose of this Practice is to provide the typical details for construction of grounding systems in chemical and refining facilities. The bonding and grounding design and installation shall be in accordance with the *National Electrical Code*.

### 1.2 Scope

These installation details include power system and equipment grounding, static grounding protection for equipment in classified locations, grounding electrode connections, and step and touch potential grounding.

Not included in the scope of this Practice are computer and control system grounding and cathodic protection.

## 2. References

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Applicable requirements in the latest edition (or the edition indicated) of the following industry codes, standards, and references shall be considered an integral part of this Practice.

### 2.1 Industry Codes and Standards

- National Fire Prevention Association (NFPA)
  - NFPA 70 - *National Electrical Code (NEC)*

## 3. General Information

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### 3.1 Category Index

| Detail Number       | Grounding Detail Category     |
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| ELIGD550 – ELIGD559 |                               |
| ELIGD600 – ELIGD649 | Fences                        |
| ELIGD650 – ELIGD699 | Miscellaneous                 |