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Continued or periodic maintenance is aided through adequate design, choice of materials and proper installation techniques to ensure that the grounding

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system shall be earthed is governed by the regulation.

The choice of earthing to one point on each system is designed to prevent the passage of current through the earth under normal conditions, and thus to avoid the accompanying risks of electrolysis and

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System Design

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Electrical Design.

What is a resistance
grounding?

Resistance grounding
in an electrical

system is defined as

the use of a resistor

as a grounding path

between the neutral

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point of transformer or generator and the earth ground. There are two methods to accomplish this system of grounding, namely the low resistance grounding and high resistance grounding.

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~~Resistance~~

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~~Electrical System ...~~

The design shall be in accordance with NEC and IEEE Std.1100

(Emerald Book)

guidelines. 7.0 All

underground or

concrete encased

electrode grounding

system connectors

shall be of the

exothermic welded

type. 8.0 Grounding

system connectors

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used in exposed work may be mechanical type, listed for use in grounding applications. 9.0 All manholes shall be equipped with ground rods and ground busbars.

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System Grounding

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System grounding refers to the limit of the defined values the voltage has to the ground in every part of the electrical system. It connects the current-carrying point of the electrical system to the ground, i.e., the neutral of transformers and rotating equipment

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as well as lines.

System Design

~~The Basics of~~

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Design and

construction of

earthing system must

assure that system

performs for the

expected life of the

installation and it

must therefore take

into account future

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additions and the maximum fault current for the ultimate configuration.

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Step#2: Earthing Grid
Conductor Sizing.
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electrodes. The earthing system, sometimes simply called ' earthing ' , is the total set of measures used to connect an electrically conductive part to earth. The earthing system is an essential part of power networks at both high- and low-

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voltage levels. A good earthing system is required for:

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sources - Electrical Energy, Lightning, Static Electricity, RF Energy In any discussion of the grounding of electrical systems, particularly as it applies to power systems, there also needs to be a consideration of how the grounding system relates to

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A grounding design
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geological data, and soil resistivity of the area. Typically, the site engineer or equipment manufacturers specify a resistance-to-ground number. The National Electric Code (NEC) states that the resistance-to-ground shall not exceed 25 ohms for a single electrode.

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