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*An Introduction to Grounding
Calculations and Why They Are
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**GROUNDING SYSTEM DESIGN
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Necessary Grounding and Bonding
Methodology of earthing design

Introduction to Lightning Protection
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~~Substation Earth Grid Resistance
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Standards 5 of 7 System and Equipment Grounding

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The grounding system must ensure maximum safety from electrical system faults and lightning. A good grounding system must receive periodic inspection and maintenance, if needed, to retain its

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effectiveness! Continued or periodic maintenance is aided through adequate design, choice of materials and proper installation techniques to ensure that the grounding system resists deterioration or inadvertent destruction.

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with ...

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The design shall be in accordance

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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 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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