

E2.7 Hot Primary and Grid Sites

All Primary or Grid sites shall have the EPR assessed and the details recorded on the Company's hot site register. This information shall be made available to the relevant telecommunications companies. The owner of the Central Network's hot site register shall be listed on the Energy Networks Association's, Rise of Earth Potential website to provide the telecommunication companies with a point of contact. The information to be made available on request is:-

- Hot/Cold site classification (based on either 650 or 430 volt limits)
- Grid Reference or address of the site
- Extent of the hot zone (if known), otherwise quote 100m (as detailed in ENA ER S36).

Hot Primary/Grid sites require an isolation unit fitting to all incoming telecomms circuits. Telecomms circuits passing through the hot zone surrounding a primary or grid site require no specific precautions unless the EPR at the point of the telecomms circuit exceeds 1700 Volts for sites with fast protection clearance (i.e. less than 0.2 seconds) or 1150 volts for slower protection clearance times. ENA ER S36 provides more detail.

Where reasonably practicable all new primary/grid sites shall be designed as cold sites. Where a cold site is impractical then any distribution sites that are cable connected to the new site shall be assessed to determine the EPR at that location. If the distribution site is declared hot for a fault at the primary substation then the HV and LV earths must be segregated.

In general new LV supplies feeding a Primary or Grid site shall be derived from a dedicated on-site transformer. This transformer should not be used to provide LV supplies to customers off the site. If in doubt or where existing LV supplies are involved with supplying off-site third parties then refer to the Central Networks Earthing Specialist for further advice.

E2.8 Methods of Earthing used on the Company's Networks

An application guide is available that provides greater detail on neutral earthing requirements for the Company's HV and EHV networks. Figure E2.1 shows typical neutral earthing arrangements found on Central Networks systems.

E2.8.1 132kV Network

The 132kV network is a three wire, three phase network, except for the railway traction supplies which is a single phase 25kV system, with one pole earthed.

All 400/132kV and 275/132kV transformers have their star points solidly connected to earth. Transformers at 132/66kV, 132/33kV and 132/11kV will also have the star point of each 132kV winding solidly connected to earth, in effect forming a multiple earthed system. This multiple direct earthing gives rise to the large earth fault currents experienced on the 132kV system.

E2.8.2 66kV & 33kV Networks

The 132/66kV and 132/33kV transformers are usually delta connected on the secondary side. These 33 or 66kV windings will be earthed by an earthing transformer. In the past the earthing

Esaa Earthing Reference Manual

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Practical Guide to Inspection, Testing and Certification of Electrical Installations Christopher Kitcher, 2009-02-04 This book answers all your questions on the basics of inspection and testing with clear reference to the latest legal requirements Chris Kitcher not only tells you what tests are needed but also describes all of them step by step with the help of real world colour photos Sample forms show how to verify recorded test results and how to certify and fill in the required documentation The book is also packed with handy advice on how to avoid and solve common problems encountered on the job With its focus on the practical side of the actual inspection and testing rather than just the requirements of the regulations this book is ideal for students experienced electricians and those working in allied industries on domestic and industrial installations All the theory required for passing the City Guilds 2391 10 and 2392 10 Certificates is explained in clear easy to remember language along with sample questions and scenarios as encountered in the exams The book will also help prepare students on Part P Competent Person courses City Guilds 2330 Level 3 courses NVQs and apprenticeship programmes for their practical inspection and testing exam Chris Kitcher has 45 years of experience in the electrical industry He is an Electrical Installation lecturer at Central Sussex College and an examiner for the City and Guilds 2391 qualification He has worked for the last 12 years in both the college environment and on site

12th International Conference on Electricity Distribution [17-21 May 1993, International Convention Centre (ICC), Birmingham, UK], 1993 **12th International Conference on Electricity Distribution: Contributions (7 v.), 1993** *Government Reports Announcements & Index*, 1994 Electrical Engineer of Australia & New Zealand, 1956 **Electrical Engineer**, 1955 Electrical Times, 1963 Engineering, 1944 International Books in Print, 1986 *Board and Council*, 1957 The Wireless Engineer, 1941 *Science Abstracts*, 1993 **Government Reports Annual Index**, 1994 *Il Nuovo dizionario Hazon Garzanti* Mario Hazon, 1991 *Substation Earthing Guide*, 2006 **Grounds for Grounding** Elya B. Joffe, Kai-Sang Lock, 2022-12-21

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will also find Revised and updated information presented in every chapter New chapters on grounding for generators uninterruptible power sources UPSs New appendices including a grounding design checklist grounding documentation content and grounding verification procedures Grounds for Grounding is a useful reference for engineers in circuit design equipment and systems as well as power engineers platform and facility designers *McGraw-Hill's NEC 2014 Grounding and Earthing Handbook* David Stockin,2014-03-17 The most complete guide to the grounding and earthing requirements of the 2014 National Electrical Code If you are responsible for delivering power or if you just want to know what's going on beneath your feet read these pages ground your circuit as Stockin suggests and you can close the master switch with confidence Bill Nye The Science Guy David Stockin's book develops a clear understanding of Code requirements through extensive use of illustrations and clear text David Brender P E Code Making Panel NO 5 member Stockin adds his own experiences to the fundamentals of NEC 250 allowing readers to visualize practical applications of routine rules in a new and novel way Travis Lindsey McGraw Hill's National Electrical Code 2014 Grounding and Earthing Handbook fully addresses the above grade grounding and below grade earthing issues related to Article 250 of the 2014 National Electrical Code This practical guide features in depth discussions of each of the Code's requirements section by section along with clear explanations and real world examples For ease of reference a separate chapter calls out all of the changes introduced to Article 250 of the 2014 NEC Information on the Canadian Electrical Code is also provided A helpful question and answer chapter covers common on the job topics and more than 100 detailed diagrams illustrate the information presented in this authoritative resource Coverage includes Summary of grounding and earthing requirements in the 2014 NEC Zone of influence Grounding electrodes System design and planning Soil resistivity testing Testing of existing grounding systems Ground potential rise Step and touch voltage hazards Effects of lightning on grounding systems Standards for lightning protection systems Economic considerations System grounding Grounding electrode system and grounding electrode conductor Enclosure raceway and service cable connections Bonding Equipment grounding and equipment grounding conductors Methods of equipment grounding Direct current systems Instruments meters and relays Grounding of systems and circuits of over 1000 volts Swimming pools fountains and similar installations **Grounds for Grounding** Elya B. Joffe,Kai-Sang Lock,2011-09-20 GROUND'S FOR GROUNDING The first book to cover grounding from the circuit to system and across the entire spectrum of applications Grounds for Grounding provides a complete and thorough approach to the subject of designing electrical and electronic circuits and systems blending theory and practice to demonstrate how a few basic rules can be applied across a broad range of applications The authors begin with the basic concepts of Electromagnetic Compatibility EMC that are essential for understanding grounding theory and its applications such as ground loop which is one of the most misunderstood concepts in EMC Next they provide an introduction to grounding including safety grounding grounding for control of electromagnetic interference and grounding related case studies Subsequent chapter coverage

includes Fundamentals of grounding design Bonding principles Grounding for power distribution and lightning protection systems Grounding in wiring circuits and cable shields Grounding of EMI terminal protection devices Grounding on printed circuit boards Integrated facility and platform grounding system Practical case studies are integrated throughout the book to aid in readers comprehension and each chapter concludes with a useful bibliography Grounds for Grounding is an indispensable resource for electrical and electronic engineers who work with the design of circuits systems and facilities

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An Introduction to Safety Grounding Asser A. Zaky, 2021-07-06 Safety or protective grounding is of vital importance for the protection of individuals from electric shock and structures and industrial concerns from potentially damaging lightning and electrostatic discharges To many electrical engineers the notion of grounding is nebulous and safety grounding is quite often confused with neutral grounding of the

power supply The main objective of this book is to give the reader a better understanding of safety grounding why it is needed where it is needed and what are the requirements which must be met in order to have an effective grounding system The text as a whole serves to provide the reader with the necessary background for a better appreciation of the various National and International Standards concerned with safety grounding This book gives the reader a good understanding of the fundamentals of safety grounding It is a practical guide that provides a comprehensive coverage of all types of grounding requirements and is intended for students and practicing electrical engineers alike Summarizes the physiological effects of current on the human body and the effect of current duration Gives the various methods of measuring soil resistivity and measuring the resistance to ground of an electrode or grounding system Reviews different types of ground electrodes and the effect of their geometry and numbers on the resistance to ground Presents the components of a ground system methods of improving soil resistivity the types of welds and joints the criteria for determining conductor cross sections galvanic corrosion and a survey of the different grounding practices used at substations and the different types of grounding systems used for the protection of consumers Deals with electrostatic and lightning hazards that can cause serious damage and the measures used to protect against such damage Throughout the text frequent reference is made to various National and International Standards and their requirements as compliance with these standards is highly advised Asser A Zaky Ph D FIET F Inst P FIEEE is Emeritus Professor of Electrical Engineering at University of Alexandria Egypt

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