

Distribution Code Consultation DCRP/17/03

Title: Engineering Recommendation P25

The short-circuit characteristics of single-phase and three-phase low voltage distribution networks.

Target Audience: The guidance in Engineering Recommendation P25 (EREC P25) will be of interest to designers of customer low voltage (LV) installations and it is expected that such persons are conversant with the requirements of BS 7671 (IET Wiring Regulations).

Date Published: 17th March 2017

Deadline for responses: 14th April 2017

Summary

This Distribution Code public consultation is seeking the views from industry stakeholders on the proposed modification to Engineering Recommendation P25.

Guidance relating to 230 V single-phase supplies and 400 V three-phase supplies, previously provided in ER P25 Issue 1 (1996) and ER P26 Issue 1 (1985), will be superseded by the modified Engineering Recommendation (EREC) P25 (2017). ER P26 will be withdrawn.

The modified EREC provides guidance on the estimation of maximum prospective short-circuit current (PSCC) on the DNO LV network and at the supply terminals.

EREC P25 is an Annex 1 qualifying standard to the GB Distribution Code¹ and governed by the Distribution Code Review Panel (DCRP). The DCRP establish and maintain governance arrangements for Qualifying Standards that have a material effect on Users of the Distribution System. Annex 1 documents are approved by the Authority before publication.

1. Introduction

EREC P25 is intended to provide guidance on the estimation of maximum prospective short-circuit current (PSCC) at the supply terminals of existing and planned electrical installations which are connected to DNO LV networks via a single-phase service rated up to 100 A or a poly-phase service rated up to 400 A per phase.

For three-phase supplies, where the arrangement consists of more than one separately protected three-phase service, direct from the DNO's LV busbar in the substation, individual guidance should be given on application to the DNO.

The guidance in this EREC may not be fully appropriate for interconnected-LV networks which are prevalent in certain regions of the UK; for example in London, Merseyside, Wirral, and North Wales. Suitable guidance should be obtained direct from DNOs operating in such regions.

¹ <http://www.dcode.org.uk/the-gb-distribution-code/>

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2 Analysis and Proposal

The working group who have been working on the revision are now requesting comments from Industry stakeholders on the contents of the draft EREC P25.

A copy of the Draft EREC P25 and comment proforma are included in the consultation pack.

3 Applicable Distribution Code Objectives

The Applicable Distribution Code Objectives are to:

- a. permit the development, maintenance, and operation of an efficient, co-ordinated, and economical system for the distribution of electricity; and
- b. facilitate competition in the generation and supply of electricity; and
- c. efficiently discharge the obligations imposed upon distribution licensees by the distribution licences and comply with the Regulation and any relevant legally binding decision of the European Commission and/or the Agency for the Co-operation of Energy Regulators; and

4 Consultation Questions

- 4.1 Do you agree that the proposed amendments achieve the Distribution Code Objectives?
- 4.2 Do you agree with the proposed legal text contained in the draft EREC P25, or do you have any alternatives to propose?

5. Next Steps

Responses to this consultation should be sent to the Distribution Code Review Panel Secretary at dcode@energynetworks.org by **17:00 Friday 14 April 2017** on the proforma provided expressly for the purpose. Responses after this date may not be considered.

6. Consultation Pack

- Consultation paper
- Draft EREC P25
- Proforma comment form

For more information, please contact:

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