

## DCRP – Distribution Code Standards – Update for DCRP meeting 8 September 2016

### Work ongoing

### Annex 1 Qualifying Standards

Document	Summary	Status
EREC G5/4-1 - Planning Levels for Harmonic Voltage Distortion and the Connection of Non-Linear Equipment to Transmission Systems and Distribution Networks in the UK	Meetings of the joint panel WG have resumed, the most recent meeting having been held on 16 August. Sub WGs have reviewed the requirements for the three stages of assessment and final comments are expected by mid-October from WG members on Stages 1 and 2 text which is fairly well developed. The method of allocation of headroom under Stage 3 assessment is not yet fully resolved and a steer may be necessary from DCRP and GCRP if a solution cannot be reached within the WG. The expected date for a complete consultation draft to be available is now the end of 2016 but this will depend on a solution to the allocation issue being found within a reasonable timescale.	DCRP sanctioned. Revision in progress
EREC P2 – Security of Supply	<p>The work continues to progress completion of Ph1 and this is expected September 2016.</p> <p>Public Consultation closed 12 June 2016. The DCRP P2 WG were seeking responses from industry parties and stakeholders relating to the questions outlined in the consultation document relating to potential options for reform of ER P2.</p> <p>The working group is now finalising the work stream 8 report. Next steps is to prepare the Ph 2 programme.</p> <p>All minutes papers and progress reports are uploaded and available on the <a href="#">D Code website</a></p>	DCRP sanctioned. Revision in progress
EREC S34 – A Guide for Assessing the Rise of Earth Potential at Substation Sites	The estimated delivery of a draft EREC S34 suitable for consultation is now Q42016. Steering Committee meetings are scheduled for 20 September, 2 November and 6 December.	DCRP sanctioned. Revision in progress
TS 41-24 - Guidelines for the Design, Installation, Testing and Maintenance of Main Earthing Systems in Substations	The project on risk assessment studies is under way with separate subgroup meetings taking place. Work on the remainder of the document is substantially complete apart from final apportionment of content between EREC S34 and TS 41-24. Estimated delivery of consultation draft: Q4 2016. Steering Committee meetings are scheduled for 20	DCRP sanctioned. Revision in progress

	September, 2 November and 6 December.	
ER P28 – Planning limits for voltage fluctuations caused by industrial, commercial and domestic equipment in the UK.	The Phase 3 Revision Phase commenced in September 2015 as planned. Individual P28 sub-working groups have been established and are working through the proposed amendments identified in Phase 2 by the main P28 working group. Meetings of the P28 working group are taking place every 6-8 weeks (see DCode website for details). Drafting of the revised P28 Issue is in progress with submission of a 1st working draft at the end of July 2016. Due to continuing deliberations on a number of technical points the final draft is now scheduled for the end of 2016. The Secretary of the DCRP has agreed that an Engineering Report will be prepared to accompany P28 Issue 2.	DCRP sanctioned. Revision in progress
ER P24 – AC Traction Supplies to British Rail	A paper was submitted to the ENFG in September seeking the members view on the future strategic ownership details raised by Network Rail. Consensus from ENFG on the ownership boundary not yet communicated. The details of the ownership debate were discussed again by the Task Group on 23/09/15 and it was suggested that DNO/TNO continuing to own 25 kV assets as per P24 is agreeable but where power electronics/developing technology are proposed for a connection, then careful consideration and NR ownership would be preferable. The Earthing Co-ordination Group have been requested to review the earthing guidance in P24 - comments expected by end of April 2016. P24 currently in working draft version. Next meeting of P24 revision team is 14/04/16. The Working group agreed that TS 41-15 Part 9 could be archived as high-level protection aspects will be captured in P24. P24 will include some informative background on the developing 'converter connection' for AC traction supplies. Next meeting 07/07/16 at NPg offices. Progressive technical discussions during 07/07/16 meeting. The 1st working draft of P24 is expected in August 2016. The Earthing Co-ordination Group is assisting with amendments to earthing guidance. Revision work on G5 has an impact on P24 as highlighted by Network Rail. National Grid representative to advise G5 group on the	DCRP sanctioned. Revision in progress.

	impacts to P24. Next meeting for P24 22/09/16. Intention of Working Group is to aim for completion by end of 2016.	
ER P25 - The Short Circuit Characteristics of Public Electricity Suppliers' Low Voltage Distribution Networks and the Co-ordination of Overcurrent Protection Devices on 230V Single Phase Supplies up to 100A.	<p>Initial review completed and report published 25/02/16. Since the document was published in 1996, a number of the references in the document, have been revised or superseded. Much of the technical content of ER P25 is still relevant and no major errors were identified.</p> <p>The document appears to have served the industry well since it was published. This initial review has identified that a minor revision of the document is required to update the document against current Standards and practice.</p> <p>Feedback from Member Companies has confirmed that ER P25 remains relevant and is required. The Member Companies have highlighted a number of clarifications and confirmations that are required during the revision. P25 and P26 to be amalgamated into 1 document. Revision commenced.</p> <p>Revision to be conducted via a Task Group in accordance with DCRP procedures. Confirmed representatives for the P25&amp;P26 Task Group from UKPN, SPEN and SSE. Awaiting response from other DNOs and IDNOs.</p> <p>Revision commenced. P25 and P26 documents amalgamated (P25 Issue 1 supersede, P26 Issue 1 withdraw). 1st draft revision of P25 Issue 2 circulated to the Revision Corresponding Group on 12/08/16. The Revision Corresponding Group consists of representatives from all the DNOs. Key issue during revision is treatment of distributed generation on LV network. Work expected to complete end of 2016.</p>	DCRP sanctioned. Revision in progress.
ER P-26 – The Estimation of the Maximum Prospective Short-Circuit Current for Three Phase 415V Supplies.	<p>Initial review completed and report published 25/02/16. Feedback from Member Companies has confirmed that ER P26 remains relevant and is required. The Member Companies have highlighted that the increase in LV distributed generation is an important consideration for fault level at the LV busbars. The impact of this generation should be investigated to determine whether the PSCC values declared in ER P26 need to be amended. Indeed, the revision of G74, which is currently in progress, should consider calculation of fault level of LV</p>	DCRP sanctioned. Revision in progress.

	<p>busbars with the objective of validating the PSSC values in ER P26.</p> <p>The content in P26 is very similar ENA Engineering Recommendation P25, which provides guidance on the estimation of PSSC for 230 V single-phase supplies. It is recommended that a revisions of ER P26 and ER P25 are undertaken together with a view to amalgamating the documents. P26 revision commenced and document to be amalgamated with P25 - see notes on P25.</p>	
ER P14 - Preferred switchgear ratings	<p>Initial review completed and report published 25/02/16. EREC P14 was first published 44 years ago in 1971 and has not been amended since. Although it is referenced in Annex 1 Distribution Code (DCode) as a Qualifying Standard, it is not specifically referenced in any clauses in the DCode. This initial review has identified that the majority of requirements, in EREC P14, are covered in other ENA engineering documents.</p> <p>The report concludes that ER P14 is no longer required and can be withdrawn, providing the Dcode Annex 1 is updated accordingly.</p> <p>A paper will be submitted to September meeting of DCRP seeking approval to remove reference to P14 from D Code.</p>	DCRP sanctioned. Revision in progress.
ER P29 - Planning limits for voltage unbalance in the UK for 132kV and below	<p>Initial review completed and report published 25/02/16. Since the document was last amended in 1990 modern National and International Standards for Electromagnetic Compatibility (EMC) have been published and ER P29 needs to be aligned, where appropriate, with the terminology, concepts and requirements in these Standards.</p> <p>Much of the technical content of ER P29 is still relevant and no major errors were identified. The document appears to have served the industry well since it was published. However, the technical content needs to consider any changes resulting from unbalanced demand/generation in single-phase connections that are known to cause voltage unbalance issues.</p> <p>Feedback from the ENA Power Quality and EMC Group confirms that ER P29 remains technically relevant and there is support for a 'Working Group' revision - similar to those for revision of ER G5 and ER P28. It is recommended that revision of ER P29 should follow completion of the revision of ER G5</p>	DCRP sanctioned. Revision in progress.

# DCode

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	and ER P28. This would allow learning points on common aspects from the revision of ER G5 and ER P28 to be incorporated in ER P29. <b>No work in 2016. Revision to be reviewed on completion of P28 and G5 work.</b>	
<b>Appendix 2 Qualifying Standards</b>		
	No revision work to Appendix 2 Qualifying Standards ongoing at this time.	