

DISTRIBUTION CODE REVIEW PANEL (P2 WORKING GROUP) REVIEW OF ENGINEERING RECOMMENDATION P2

OPEN WORKSHOP ON FRIDAY 1ST MAY 2015: ENGINEERING RECOMMENDATION P2 REVIEW

The Consortium

In January 2014 the Distribution Code Review Panel P2 Working Group (DCRP P2 WG) through the Energy Network Association (ENA) engaged the consortium comprising DNV GL, Imperial College London (ICL) and NERA in a project to perform a full back to basics review of Engineering Recommendation P2/6.

Background

Engineering Recommendation P2/6 (P2/6) is a licence condition on electricity distributors relating to the planning of their systems and although it was updated in 2006 to include embedded generation, it has not been significantly reviewed since it was drafted in as P2/5 in 1977.

The network licensees recognise that the existing licence security standards as described in P2/6 are potentially obsolete and may not be fit for purpose for future network developments. There is a risk that the planning standards may constrain economical and efficient development of networks that are necessary to support the growth of low carbon technologies and provide systems which meet customer needs in an increasingly technology based society.

The licensees believe that it is time to undertake a comprehensive review of customer and system requirements and to improve their understanding of what is required of the security standard for future long term sustainable development of networks.

Initial Open Workshop

Distribution networks designed in accordance with the historic deterministic standards have broadly delivered secure and reliable supplies to customers. However, the future evolution of the planning standard is directly linked with the question of the efficient economic use of existing assets and the role that advanced; non-network technologies could play in the future development and delivery of security of supply to consumers.

The DCRP P2 working group has appointed the DNV GL led consortium (other members are Imperial College London and NERA) to undertake a fundamental review of the philosophy of distribution network security planning. It is timely to undertake a review such as this and to inform

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the industry, consumers, regulator and government, how future electricity distribution network design standards can play a part in achieving a cost effective delivery of the UK Government energy policy objectives. Overall, the P2 review methodology has been designed to address the two main questions:

- Is the present network security design standard efficient? Does it deliver value for money to all network customers?
- Given that the present network design standards require that the network security is provided through asset redundancy, will this impose a barrier to innovation in network operation and design and prevent implementation of technically effective and economically efficient solutions that enhance the utilisation of existing network assets and maximise value for money to network customers?

The approach developed by the consortium to address the key questions includes: a wide ranging and comprehensive research; techno-economic network modelling and analysis necessary to feed into the development of the consultation process, leading to a robust set of Final Recommendations for adaptations, updates or replacements for the existing P2 standard.

To ensure that the project is successful in delivering a revised standard that is relevant and fit for purpose for many years to come, the support of all of the stakeholders involved is critical. The P2/6 review process has been designed to include significant stakeholder engagement to ensure transparency and to gain consensus at each key stage of the project delivery. This open workshop is the first in a series of planned engagements and will provide the opportunity for the consortium and the DCRP P2 WG to present its high level approach to the review of the security standards and confirm the methods and approaches that will be adopted to tackle the main questions.

This initial workshop has been designed to:

- Raise awareness of the overall project and its objectives;
- Communicate and detail the approach to be adopted by the consortium, including the key questions and issues to be addressed by the project, and
- Outline the events and opportunities for stakeholders to engage and support the review process, and
- Seek and encourage feedback and interaction with wider industry parties and direct users of P2/6, to give all stakeholders a chance to contribute to the final outcome.

Agenda for Friday 1st May 2015

- 10:00 Registration
- 10:30 P2/6 Review Presentation
 - Background
 - Governance
 - Project scope and definitions
- 11:30 Coffee
- 12:00 Analysis approaches, methods and modelling
- 13:00 Lunch
- 14:00 Panel Session - Question and Answers
- 15:00 Concluding Remarks
- 15:30 Close