

# Power System Earthing Guide

REVISED CONSULTATION DRAFT



# Power System Earthing Practice Guide

Guide revision process



# Guide review working group members

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# Key Improvements to the Guide

- Updated references
- Relative risk of different sized MEN systems have been modelled
- Detailed advice on the separation of HV and LV earths connected to weak MEN systems



# Key Improvements to the Guide

- Management of earthing in brownfield construction sites
- Safety in Design principles as applied to earthing
- Updates to resonant earthing operational performance



# Key Improvements to the Guide

- Earthing arrangements for Electric Vehicle chargers (TT is international practice)
- Guide 80 (IEEE) hazardous touch and step EPR determination now not recommended.
- IEC hazardous voltage curves now to be used exclusively
- Recommended standard practice drawings have been updated and clarified.



# Where to from here?

- The Draft consultation Guide is anticipated to be available via the EEA website at the end of July 2018
- The EEA is keen to hold a seminar on the updated guide- provided your support is there
- Closing date for feedback is proposed to be 28<sup>th</sup> September 2018



# Acknowledgements

The Earthing Review Group wishes to acknowledge the technical input of Messer's Brad Rooney and Phil Boys of Mitton Electronet into this update of the Earthing Guide.

We also thank Juliet Clendon (EEA) for being technical secretary and documenting the agreed updates to the Guide Document.

