

**The Voice of the Networks**



**Energy  
Networks  
Association**

**ENA EREC G44 Issue 3 2017  
Revision Summary**

## Code of practice for the coordination of power line carrier system frequencies in the range 30•0 kHz to 526•5 kHz

### PURPOSE

EREC G44 sets out procedures and restrictions to be followed by ENA Member Companies proposing or operating power line carrier (PLC) equipment operating in the above frequency range

### SCOPE

- ENA Member Company PLC systems and equipment
- Communication used for signalling and protection over HV lines >22 kV (specifically excludes PLC over LV systems)
- Covers requirements for new and amendment of existing PLC carrier systems
- Systems that operate continuously or intermittently

### HISTORY

- First published in 2005
- Minor revision in 2012
- Minor revision in 2017

## Summary of Amendments

- Updated to reflect the latest UK Frequency Allocation Table (FAT) published by Ofcom
- Updated references to the Maritime and Coastguard Agency
- Frequency band 517.0 to 519.0 kHz is allocated for Navigational Telex (NAVTEX)”
- New Clause 13.2 added with requirements for communication systems that can cause interference to PLC systems operated by ENA Member Companies
- Updated Annex C with current list of radiobeacons

## Nature of Revision

Minor revision

## Key Points

No major technical changes

Normative references updated

Ofcom engaged during revision

Added new requirements for third party communication equipment installed near ENA Member Company overhead line PLC systems

Details of all amendments can be found in the accompanying ‘Document Amendment Summary’

## Who is affected and why?

- Protection policy managers and engineers ENA Member Companies
- Communication and signalling engineers/specialists ENA Member Companies
- ENA Engineering Manager
  - Needs to maintain register of PLC systems on behalf of ENA Member Companies
  - Duty to report interference to PLC systems to Ofcom
  - ensure the requirements are understood and communicated to relevant ENA Engineering staff and relevant ENA Panels/Groups, including the Energy Networks Strategic Communications Group (ENSCG)

### Requirement for ENA Member Company staff to notify the ENA Engineering Manager of:

- any new PLC systems that are planned
- PLC systems that are decommissioned
- interference caused to PLC systems by third parties

## Impact Assessment of Changes to G44

Rating Categories	Rating	Assessment
Nil	Negligible	Negligible safety impacts
Negligible	Nil	
Minor	Negligible	Negligible costs associated with notification process to ENA
Moderate	Negligible	Intended to reduce the risk of interference to ENA Member Company PLC systems by other communication providers
Major	Negligible	Ensures compliance with the Wireless Telegraphy Act 2006 and UK Frequency Allocation Table
	Minor	Ensures ENA Member Companies continue to comply with Ofcom requirements and PLC systems do not cause interference to other communication systems

The latest issue of the document is available from the ENA Engineering Catalogue via [www.energynetworks.org](http://www.energynetworks.org). Further information can be obtained from ENA by emailing [david.spillett@energynetworks.org](mailto:david.spillett@energynetworks.org)