

**From:** TechSec [techsec@amps.org.uk](mailto:techsec@amps.org.uk)   
**Subject:** FW: Current Thinking - Distribution Code Public Consultation  
**Date:** 10 August 2017 at 09:11  
**To:** Claire Short [claire.short@amps.org.uk](mailto:claire.short@amps.org.uk)

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Please find attached final agreed documents.

The document for Current Thinking has two links

A comprehensive consultation pack with further details can be downloaded [here](#). This refers to the zipped folder

AMPS Technical Committee Grid Code workgroup has created a series of questions and answers to assist members. This can be downloaded [here](#). The Q&A documents are attached in pdf format, the word version is also attached if you don't like the layout...

**Any problems please email**

**When will it go out?**

**Bernard Gospel**

*Technical Secretary*

E: [techsec@amps.org.uk](mailto:techsec@amps.org.uk)

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AMPS | Peershaws | Berewyk Hall Court | White Colne | Colchester | Essex | CO6 2QB

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**From:** TechSec

**Sent:** 09 August 2017 16:14

**To:** Claire Short <[claire.short@amps.org.uk](mailto:claire.short@amps.org.uk)>

**Subject:** FW: Current Thinking - Distribution Code Public Consultation

I'll come back to you with a revised statement etc

**Bernard Gospel**

*Technical Secretary*

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**From:** TechSec

**Sent:** 08 August 2017 18:48

**To:** Claire Short - AMPS Marketing - AMPS - Marketing ([claire.short@amps.org.uk](mailto:claire.short@amps.org.uk))  
<[claire.short@amps.org.uk](mailto:claire.short@amps.org.uk)>

**Cc:** Chris Marsland - EnerG ([chris.marsland@energ.co.uk](mailto:chris.marsland@energ.co.uk)) <[chris.marsland@energ.co.uk](mailto:chris.marsland@energ.co.uk)>; Greg Middleton - DSE ([Greg.Middleton@deepseapl.com](mailto:Greg.Middleton@deepseapl.com)) <[Greg.Middleton@deepseapl.com](mailto:Greg.Middleton@deepseapl.com)>

**Subject:** Current Thinking - Distribution Code Public Consultation

Please draft a "current thinking" release giving the following, as usual, we wish to get it out as soon as we can.

QUOTE

### [Distribution Code Public Consultation](#)

#### [Frequency Changes during Large Disturbances and their Impact on the Total System](#)

Licensed electricity distribution businesses, or Distribution Network Operators (DNOs) in Great Britain, are obliged under Condition 21 of their licences to maintain a Distribution Code detailing the technical parameters and considerations relating to connection to, and use of, their electrical networks.

This Distribution Code public consultation is seeking the views from industry stakeholders on proposed changes to the Distribution Code, Engineering Recommendations G59 and G83 recommended by the Joint Panel working group GC 0079.

AMPS Technical Committee have been involved in the development of this proposed change to the Distribution Code.

On several occasions, it has been suspected that a transmission system fault that did not result in islanding resulted in the inadvertent tripping of embedded generation plants by their LoM protection. A definite event was recorded on 22 May 2016 following a single transmission circuit fault. Further investigation of this event showed that a significant number of embedded generation plants had tripped as a result of the operation of vector shift protection. This event resulted in a loss of infeed and a frequency dip that was bigger than that which was anticipated. Following this incident, a review was performed by the Distribution Code workgroup, resulting in the following proposal.

The Distribution Code workgroup recommends the modification of the Distribution and Planning Code, Engineering Recommendations G59 and G83 to ensure that all embedded generators with a commissioning date on or after the date of implementation of these proposals comply with the following:

- a) That if rate of change of frequency (RoCoF) protection is used as Loss of Mains protection, the applied setting should be 1Hzs-1 with a definite time delay of 500ms.
- b) That all generation (whether using discrete relays or loss of mains techniques included in the overall control scheme for type tested generation) should demonstrate stability for appropriate RoCoF and vector shift disturbances
- c) That vector shift protection technique should not be used as Loss of Mains protection.

This is proposed to apply to embedded generation of registered capacity below 5MW commissioned on or after 1 February 2018 and that that type tested generators should also comply by 1 February 2018.

A comprehensive consultation pack with further details can be downloaded [here](#).

### Next Steps

Responses to this consultation must be sent to the Distribution Code Review Panel Secretary by 17:00 Friday 1 September 2017, accordingly the AMPS Technical Committee request that any comments from AMPS Members be submitted to them for incorporation in a common response by **17:00 on Monday 28<sup>th</sup> August 2017**. Please respond to [TechSec@AMPS.org.uk](mailto:TechSec@AMPS.org.uk).

UNQUOTE

The attached zip folder should be linked to [here](#) in the above.

Any queries, please come back to me.

Chris / Greg... I have put a little more detail in than was in the ENA email, trust this is OK.

### Bernard Gospel

*Technical Secretary*

E: [techsec@amps.org.uk](mailto:techsec@amps.org.uk)

T: 01787 221025

M: 07710 536695

F: 0845 301 6853

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**From:** Chris Marsland [<mailto:chris.marsland@energ.co.uk>]

**Sent:** 07 August 2017 16:27

**To:** TechSec <[techsec@amps.org.uk](mailto:techsec@amps.org.uk)>

**Cc:** Greg . Middleton ([Greg.Middleton@deepseapl.com](mailto:Greg.Middleton@deepseapl.com)) <[Greg.Middleton@deepseapl.com](mailto:Greg.Middleton@deepseapl.com)>  
**Subject:** FW: DCPR/17/05 - Distribution Code Public Consultation - NEW

Bernard can you oblige please?  
Thanks

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**From:** Mike Kay [<mailto:mike.kay.P2A@outlook.com>]  
**Sent:** 07 August 2017 16:25  
**To:** Chris Marsland <[chris.marsland@energ.co.uk](mailto:chris.marsland@energ.co.uk)>; [Greg.Middleton@deepseapl.com](mailto:Greg.Middleton@deepseapl.com)  
**Subject:** FW: DCPR/17/05 – Distribution Code Public Consultation - NEW

Gentlemen- firstly again thanks to Greg for putting so much effort into this.

Can I ask that you spread the message on this one widely through your industry contacts? This could really affect manufacturers of smaller generation units, particularly asynchronous, significantly.

Thanks very much.

Regards

M

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**From:** David Spillett [<mailto:david.spillett@energynetworks.org>]  
**Sent:** 07 August 2017 14:28  
**To:** David Spillett <[david.spillett@energynetworks.org](mailto:david.spillett@energynetworks.org)>  
**Cc:** Richard Colwill <[richard.colwill@energynetworks.org](mailto:richard.colwill@energynetworks.org)>  
**Subject:** DCPR/17/05 – Distribution Code Public Consultation - NEW

## **DCPR/17/05 – Distribution Code Public Consultation**

### **GC0079 - Frequency Changes during Large Disturbances and their Impact on the Total System**

#### **Dear Distribution Code Stakeholder,**

This Distribution Code public consultation is seeking the views from industry stakeholders on proposed changes to the Distribution Code, Engineering Recommendations G59 and G83 recommended by the Joint Panel working group GC 0079.

The workgroup recommends the modification of the Distribution and Planning Code, Engineering Recommendations G59 and G83 to ensure that all embedded generators with a commissioning date on or after the date of implementation of these proposals comply with the following:

- a) That if rate of change of frequency (RoCoF) protection is used as Loss of Mains protection, the applied setting should be 1Hzs-1 with a definite time delay of 500ms.
- b) That all generation (whether using discrete relays or loss of mains techniques included in the overall control scheme for type tested generation) should demonstrate stability for appropriate RoCoF and vector shift disturbances
- c) That vector shift protection technique should not be used as Loss of Mains protection.

A comprehensive consultation pack with further details can be downloaded [here](#) from the Distribution Code Website.

#### **Next Steps**

Responses to this consultation should be sent to the Distribution Code Review Panel Secretary at [dcode@energynetworks.org](mailto:dcode@energynetworks.org) by **17:00 Friday 1 September 2017** on the pro-forma provided expressly for the purpose. Responses after this date may not be considered.

**For more information, please contact:**

David Spillett – Code Administrator - [dcode@energynetworks.org](mailto:dcode@energynetworks.org)

Please feel free to forward this notification to anyone you think may be interested in responding to this consultation.

Finally can I please remind you that If you would like to continue to be notified about Distribution Code or Qualifying Standards updates and Distribution Code related public consultations, can I please ask that you register your interest at the Distribution Code website [home page](#) where you will find the registration link in the banner at the foot of the page.

Thank You

Kind regards,

David

**David Spillett**

Secretary to GB Distribution Code Review Panel

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