Joint Grid Code Review Panel #1 2019

Welcome to all members

19 Nov 2019

Agenda

Time	Topic	Duration
10:30 – 11:00	Tea/Coffee/Pastries	30 mins
11:00 – 11:30	Introduction: • Welcome members • Minutes and Actions	10 mins
	Discussion: • High-level Introduction - The application of Connection Network Codes to existing users following a modernisation or replacement of equipment	10 mins
	Updates: • CRU Update • Utility Regulator	5 mins
	AOB	5 mins

Discussion:

The application of Connection Network Codes to existing users following a modernisation or replacement of equipment

Miriam Ryan – JGCRP – 19 Nov 2019

EIRGRID SONI

Application of CNCs to Existing Users (1)

- Article 4 of the RfG, DCC and HVDC Connection Network Codes state that these codes do not apply to an existing User, unless the User undergoes a refurbishment, modernisation or the replacement of equipment, which drives a modification to their connection agreement.
- The CNCs do not define what constitutes a refurbishment, modernisation or replacement of equipment.

Application of CNCs to Existing Users (2)

- Different approaches have been taken by other TSOs, including:
  - Monetary based approached
  - Capability / Characteristic based approach
  - Blanket application vs pro-rata application

Application of CNCs to Existing Users (3)

- The proposal is to apply a capability based approach with the CNC's being applied on a pro-rata basis.

Application of CNCs to Existing Users (4)

- Application of the RfG to an existing PPM following a repowering:
  - Consider the case of an existing Non-RfG PPM where the wind turbines have reached their end of life and are due for replacement, as well as control system and auxiliary systems.
  - Due to the extent of the refurbishment, the PPM would be re-classed as an RfG Generation Unit and would be subject to the full requirements of the RfG for PPMs.

Application of CNCs to Existing Users (5)

- Application of the RfG to an existing gas-fired generation unit, following the replacement of the generation unit's governor:

  - The Generation Unit has identified an issue with their governor and has decided to put a program in place to replace the governor.
  - Following the replacement of the Governor, the Generation Unit would only be classed as an RfG Generation Unit for the RfG requirements that are concerned or related to with the operation of the governor, e.g. frequency response.

Application of CNCs to Existing Users (6)

- Application of RfG to a Wind-Powered PPM, following an upgrade of its control system:

  - Upgrades of control systems of Wind-Powered PPMs are extremely complex. The upgrade may impact all or some of the Wind-Powered PPM's capabilities.
  - The PPM owner would contact the TSO as early as possible to discuss the control system upgrade and its potential impacts. The TSO will then be able to determine which RfG requirements will be applicable to the PPM, post the completion of the control system upgrade.

Application of CNCs to Existing Users (7)

- Full discussion paper to be issued post GCRP meeting, with a request for comments to be returned by 20 December 2019.

- Formal proposal to be issued for agreement with RAs in January 2020.

Application of CNCs to Existing Users (7)

- Further discussion at the respectively EirGrid and SONI GCRP meetings.

Regulatory Update

CRU and Utility Regulator
19 November 2019

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AOB