

## Substantially Modified Examples

Following the EU Connection Codes Co-ordination Group meeting on 7<sup>th</sup> April 2016 discussion with respect to Article 4 (of the RfG) a table was developed with some illustrative examples of possible changes that may or may not mean that this could lead to it remaining 'classified' as *existing* (in the context of the RfG/ DCC / HVDC) or now be 'classified' as *new* (in the context of the RfG/ DCC / HVDC).

Example Number	Example Details	This would be classified as 'new' because.....	This would be classified as 'existing' because.....	Other comments
1	Existing 20 year old station comprising of synchronous generating units. Excitation and Governor systems to be replaced on a like for like basis	No	No material change to performance – plant replaced with components of the same type and technology as when constructed.	NGET to be notified of change.
2	Existing Power Station site - old Generating Unit to be replaced with new Gas Turbines	Yes – There is a material change to the plant – a brand new unit is replacing the existing retired unit	No	NGET to be notified and treated in the same way as a new generating unit.
3	A 100MW wind farm comprises 50 x 2MW turbines. The wind turbines are to be replaced by 20 x 5MW turbines.	Yes – The turbines, control systems and performance are all using new plant even though the Grid Connection assets may remain largely unchanged.	No	NGET to be notified and treated in the same way as a new generating unit.
4	Generator Transformer replaced at an existing 40 year old coal station with a grey spare	No	Plant is using technology of the same type when the station was build.	NGET would need to assess any alterations in performance if different from the original plant eg tap range.
5	Change of Generator Ownership – no change to plant	No	No material change to plant	Bilateral Connection agreement to be updated using new terms where necessary (eg removal of

				MCUSA with CUSC)
6	An existing wind farm adds additional new turbines	New turbines would need to be Grid Code Compliant	<p>Major issue is that the requirements are based on the module not each turbine.</p> <p>Additional issue is that if the wind farm is small and the additional turbines increase the size of the Power Station to Medium or Large. The new turbines would have to be RfG compliant but questions remain as to how the existing Power Station should be treated.</p>	<p>Same issue as GB Code-Power Park Module extensions.</p> <p>Difficult to segregate turbine requirements from module requirements. Major issue would be for an old wind farm (pre June 2005 without Grid Code requirements adding new turbines).</p>
7	Small Power Station replants with a new bigger unit	Yes – There is a material change to the plant – a brand new unit is replacing the existing retired unit		Transfer from Small to Band C or D. Potentially more onerous requirements than previously but would effectively be treated in the same way as a new Generator.
8	Generator changes its TEC capacity or Connection Dates	Yes / No – depends if Main Plant has been ordered. If main plant ordered no, if main plant not ordered and beyond Q2 2018 - yes		