

### Technical Note on G99/G59 requirement for Generators

MullanGrid Consulting is a grid connection consultancy working in the Northern Ireland and Irish electricity industry. MullanGrid's consultants have been advising clients on the connection of generators for over twelve years and bring experience of having worked for the electricity utilities in Northern Ireland and Ireland. More information on MullanGrid can be viewed at [www.mullangrid.ie](http://www.mullangrid.ie)

Indaver (NI) Ltd have requested MullanGrid to respond to a query raised on the need to provide 'G99/G59 connection permits' for the Hightown Generator. 'G99/G59 connection permits' refer to technical requirements for all generators connecting to the NIE network.

It is a requirement that all generator installations are installed, tested and comply with the requirements of NIE Networks Engineering Recommendation G99/NI and any associated protection settings as set out in the Distribution Code. It is not a permit but technical standards that generators must achieve and the tests proving compliance are witnessed by NIE. These requirements ensure that generators can safely operate when connected to the NIE distribution system.

G99 requirements are tested and witnessed by NIE during the connection process for the generator. This test is undertaken as one of the last requirements before the generator is allowed to energise onto the NIE system. At this stage NIE will witness the G99 documentation.

MullanGrid would agree that it will be a requirement for Indaver (NI) Ltd to achieve the G99/G59 requirements for the Hightown generator. These are standard technical requirements that all generators connecting to the NIE network must achieve. The tests proving compliance can only be carried out at an advanced stage in the connection process, just before energisation of the generator.

Rory Mullan

A handwritten signature in black ink that reads 'Rory Mullan'.

Senior Consultant  
MullanGrid Consulting Ltd