

### **Design Inspection Levels for ICP Self Approved Designs.**

The Competitions in Connections Code of Practice allows ICP's with the appropriate NERS accreditations to not only undertake their own PoC assessment but to also undertake self-design approval for both the self-select PoC and the design of any extension assets.

Section 4.16.4 states that *"Where an ICP, having met the criteria set out by the DNO, undertakes design approval of the Connection Works the ICP shall not require design approval from the DNO"*.

Where an ICP has the appropriate NERS accreditations and subject to an ICP having a suitable peer checking system in place, for their Design Approval process, Northern Powergrid will allow any ICP who has design accreditation for both self-select PoC and extension asset design to undertake their own self-design approval.

As per the Competition in Connections Code of Practice, July 2015, any self-approved design must be submitted to NPg for inspection. The level of inspections undertaken will be in line with NPg's published self-design approval Inspection Matrix.

The Inspection Matrix is shown below and shows the different type of jobs that may be self-approved and the percentage of self- approved designs submitted to NPg that we will inspect. Any defects identified at the inspection stage will be highlighted to the ICP so they can be rectified.

Section 4.16.2 of the CoP states *"This section 4.16 (Design Approval) does not apply to unmetered connections except where mains extensions are required"*.

Even though formal design approval does not have to be done by either the ICP or by NPg for unmetered connections where no mains extensions are required, inspections will still be undertaken to ensure compliance with 'IMP/001/107 – Code of Practice for the PoC Connection assessment using standard Design rules' and any non-conformance will have to be rectified at the ICP's expense.

## Design Inspection Levels

Voltage	Work Type (Designs containing both generation and demand should be classed as generation schemes)	First Inspection Level	Qualifying Count to move to second level	Second Inspection Level	Qualifying Count to move to third level	Third Inspection Level
HV - Bespoke Design up to 20kV						
	Generation > 200kVA	100%		100%		100%
	Generation up to 200kVA	100%	12 jobs over a 6 month period	50%	12 jobs over a 6 month period	25%
	Demand > 1000kVA	100%		100%		100%
	Demand between 500kVA and 1000kVA	100%	12 jobs over a 6 month period	50%	12 jobs over a 6 month period	25%
	Demand < 500kVA	50%	12 jobs over a 6 month period	25%	12 jobs over a 6 month period	10%
LV Bespoke Design – 230/400V						
	Generation >50kVA <200kVA	100%	12 jobs over a 6 month period	50%	12 jobs over a 6 month period	25%
	Generation up to 50kVA	50%	12 jobs over a 6 month period	25%	12 jobs over a 6 month period	10%
	Demand > 250kVA	100%	12 jobs over a 6 month period	100%	12 jobs over a 6 month period	100%
	Demand >60kVA <250kVA	100%	12 jobs over a 6 month period	50%	12 jobs over a 6 month period	25%
Design Matrix						
	Demand up to 60kVA	50%	12 jobs over a 6 month period	25%	12 jobs over a 6 month period	10%
	Unmetered Connections	50%		10%		5%