

First Tier LCN Project Registration

DNO(s)
WPD

Registration date

Project description	
Project title	Interconnection of WPD and NGC SCADA Systems
Project background	At present there are areas of electrical network configuration and information that are of mutual interest to both NGC and WPD that can only be viewed from one operators SCADA System. Visibility of these areas of interest, especially the extent of running distributed generation, are becoming increasingly important to both companies and therefore it is proposed to create an environment where data from one system can be seen on the other and vice versa. At present, whilst WPD have real time visibility of EHV and significant HV connected distributed generation, NGC do not. Such visibility will aid NGC operational timescale forecasting, with particular reference to generation scheduling / spinning reserve. It will not be possible for either company to initiate controls on the other's network.
Scope and objectives	The scope of the project is to establish a real time link between the SCADA systems operated by NGC and WPD using the ICCC protocol such that data on either system can be viewed on the other in real time. The objectives will be: <ul style="list-style-type: none"> • Establish the link • Establish access to the data and methods of viewing the data • Establish the security measures required to ensure the security of the link to both of the systems against Cyber attack
Success criteria	The ability of staff in both control environments to view data from the other system. An evaluation of the security of the environment against Cyber attack.
TRL(s)	7
Predicted end date	Dec-11
External Collaborators and external funding	NGC and IGE. There is no external funding.
Solutions	A communications system between the two SCADA systems with information exchange using the ICCC Protocol.
Potential for new learning	There is a basic understanding of the interconnection of SCADA systems intra companies but there is little experience (if any) of inter company connections. This will provide experience of this facet and demonstrate the importance to the companies of sharing information in real time. It will also explore the possibility of Cyber attack on such a link and the effect that this could have on both companies. It will provide a test bed to develop the best method of preventing such attacks and whether ICCC is the correct methodology for sharing such information in real time.
Risks	There is a risk that the SCADA systems could be compromised. As there will be an interim stage of connecting two test systems together this risk is extremely small. This is considered to be a completely manageable risk.
Scale of Project	The two SCADA systems and the two companies.

Geographic area	All telemetered data in the WPD area (South Wales and South West England).
Does the Project involve customer engagement?	No
Funding	
Revenue allowed for within the DPCR5 settlement (£)	None.
Indication of the total Allowable First Tier Project Expenditure (£)	£79,000
Publication	
Does the DNO provide Ofgem with consent to publish its First Tier LCN Project Registration Pro-forma in full?	Yes
If not, please justify which parts the DNO considers to be confidential	
Related Undertakings	
Payments to Related Undertakings (£)	None.
If a payment is to be made to any Related Undertaking that is a Distribution System User, have the same terms been offered to similar Distribution System Users of the part of the network that is within the project boundary?	
Has the DNO used reasonable endeavours to make the opportunity available to similar Distribution System Users of the part of the network that is within the project boundary?	
IPR arrangements	
If IPRs are generated, will they conform to the default IPR arrangements set out in the LCN Fund Governance Document?	Yes
If no, then please provide a compelling justification for the project being approved	