

LCN Fund Full Submission

Supplementary Answer Form

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

Project code:	WPD-T2-04	Question Number	WPD032
Question date	20.09.2012	Answer date	24.09.2012
Submission section question relates to	Appendix C		
Topic	Network Diagrams		
Question	Please explain how the correct figure for losses will be derived from the calculation shown in Figure C3, which appears only to show reactance for the main network components.		
Notes on question			
Answer	<p>Figure C3's purpose for inclusion in the competition proforma appendix was to provide a simplistic overview of how the network losses are affected by changes in its operating arrangement.</p> <p>Figure C3 uses X as the value for total impedance as the reactance from the transformers would be the dominating contributor to impedance in this simplified instance.</p> <p>Naturally when considering the losses associated with a distribution network it is required to consider the complete network from the point of transformation between the TSO and DNO, through to the customers' point of metering, ensuring that the complete impedances ($Z = R + Xj$) for all network elements are considered.</p> <p>The losses calculations for the project will be carried out in line with standard engineering practice used daily within WPD and all DNOs.</p>		
Attachments			
Verbal Clarifications (Consultants)			