*Innovation Competitions - Full Submission*

*Supplementary Answer Form*

Tick if this answer has been provided verbally:

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| Project code | ENWT206 | Question Number | Q21 |
| Question date | 31 July 2014 | Answer date | 4 August 2014 |
| Submission section question relates to | Appendix G | | |
| Topic | IS-limiter safety case | | |
| Question | Do you have evidence that the use of IS-limiters in the UK distribution network would be (re)considered in light of new findings provided by FLARE? If so, does ENWL have an idea of the level of substantiation work required in order to modify the Distribution Code and is this taken into account regarding the potential benefits of IS-limiters? | | |
| Notes on question |  | | |
| Answer | We have held initial discussions with the HSE (please see our reply to question 20) in relation to the use of IS-limiters for the specific purpose of managing through fault current. In this specifc mode the limiter is not providing a safety critical function as all controlling circuit breakers are operating within their short circuit current ratings.  The role of the IS-limiter in such circumstances is to limit the damage done to cables by excessive through fault current, effectively preventing further damage occurring to an already faulty circuit. As all cables are buried or contained in substations, the risk is no greater than that presented by any other cable.  In this mode, whilst the HSE wish to see a robust examination of the risks and control measure, they do not have the objections they raised in relation to fault breaking modes. The FLARE Project contains costs for the derivation and documentation of the necessary risk assessments.  During the FLARE project we will not operate any equipment including cables beyond their specified rating and hence will not require a Distribution Code derogation.  Provided that FLARE proves the technique technically successful, the risk assessments are satisfactory and the economic case is verified, then we would propose a modification to the Distribution Code DPC 4.4.4(d) to clarify this specific usage. | | |
| Attachments |  | | |