*Innovation Competitions - Full Submission*

*Supplementary Answer Form*

Tick if this answer has been provided verbally:

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| --- | --- | --- | --- |
| Project code | ENWT206 | Question Number | Q3 |
| Question date | 31 July 2014 | Answer date | 4 August 2014 |
| Submission section question relates to | Section 2 Project Description | | |
| Topic | FLA Software | | |
| Question | 2.2 – Central Assesment, Pg 8  FLA Software  Specifically, what does FLA model do and what assumptions does this rely on? | | |
| Notes on question |  | | |
| Answer | Similar to standard planning tools the Fault Level Assessment Tool will apply symmetrical component analysis to calculate the maximum fault current for the worst case fault scenarios. Unlike the planning tool this will be done in near real time using real time network status and demand / generation data. Following this maximum fault current flow assessment the Fault Level Assessment Tool will compare the result against pre-defined settings and if the result exceeds this setting it will send an instruction (via our NMS) to one of the techniques requesting that it enables the fault limiting settings.  The Fault Level Assessement Tool will assume the worst case fault scenario, ie a fault close to the substation, to ensure that we capture the highest possible fault current.  There may also be some assumptions regarding generation data where we cannot directly measure it. In these cases we will assume that the generator is operating a full capacity. | | |
| Attachments |  | | |