|  |  |  |
| --- | --- | --- |
| Network Innovation Competition 2020 Supplementary Answer form | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | QUEST | | |
| Question number | #6 | Pro forma section | Section 2 |
| Question date | 18/08/20 | Answer date | 20/08/20 |
| Question summary | What devices and systems will be instructed by this scheme to enable control of voltage. Will it be only transformer tap-changers and existing DNO owned reactive power equipment? Will HV/LV transformers be controlled and, if so, how (i.e. will tap-changers be retro-fitted)? | | |

## 

## Answer (please retain document formatting and do not exceed 2 pages unless otherwise agreed with Ofgem)

We believe this is answered in section 2.2 of the full submission but for the purposes of clarity, QUEST will instruct:

1. intelligent AVC relays to control the transformer tap changers installed at Bulk Supply Points;
2. through the CLASS system, intelligent AVC relays to control the transformer tap changers installed at Primary substations;
3. through the Smart Street system, intelligent Remote Terminal Units and AVCs to control the tap changers at 10 Distribution (HV/LV) substations, enabling LV voltage optimisation on one HV ring. The existing transformers at these sites will be replaced with on load tap changing transformers as it is not possible to retrofit a tap changer;
4. through the NMS, controllable switches to perform network reconfiguration;
5. through the SGS ANM system, intelligent ‘Strata’ control devices to control a simulated DER.