**Details of the Works Completed at The Site**

|  |  |
| --- | --- |
| **Company Name:** | **Unique Site ID:** |
| **Site Address:**  **Post Code:** | **DNO/IDNO:** |
| **MPAN:** |
| **Contact Name:** | **Contact Details:**  Email  Phone |
| **Contractor (if applicable):**  Name:  Company: | **Contractor Contact Details:**  Email  Phone |
| **Description of originally installed loss of mains and overfrequency protection:**  Please overtype this text with your site-specific information.  For example – number of units, make and types of any device that provides a loss of mains protection function, overfrequency relays and what the settings for each device/relay are. | |
| **Description of work undertaken to make the change**  Please overtype this text with your site-specific information.  For example - what protection devices have been physically changed, or what protection devices have had new settings applied, or what protection devices have been physically disconnected and how. | |
| **Description of the interface protection post the change being completed**  Please overtype this text with your site-specific information.  For example – number of units, make and types of any device that provides loss of mains protection function in service and what their settings are. Also state if, where it is appropriate, loss of mains protection have been disabled/disconnected.  Please include/attach time-stamped photographs of the relevant protection devices on site, showing the settings. Please include any other photographs of relevant works on site (eg disconnected tripping circuits etc). Please attach printouts or other details of protection settings or protection setting files as appropriate.  Please include where possible in the photographic evidence to tie the photographs to the site and relevant devices, eg relay/device serial numbers, associated plant and equipment, etc. | |
| **Name of person confirming the changes have been made:** | **Name of the person who undertook the changes (if different from the person confirming the changes):** |
| **Signature, and date of confirmation:**  **Signed:**  **Date:** | **Confirm that protection has been recommissioned and all relevant tests undertaken and test certificates has been submitted as attachments to this pro-forma.**  An example of an appropriate certificate can be found in EREC G59 section 13.3. See below for further guidance    **Y / N** |

Any changed/new device shall be commissioned in accordance with the current issue of G59/3 (note that it is acceptable to use G99 settings and tests rather than G59).

Any changed settings shall be proved to be effective by testing in accordance with the current issue of G59/3 (or G99).

Any device that had its Vector Shift and/or RoCoF protection deactivated shall be proved to be stable by testing in accordance with the current issue of G59/3 (or G99) where it is feasible to conduct such tests. Where vector shift and/or RoCoF has been deactivated, the tests in G59/3 that would normally demonstrate the correct tripping should, in this case, show that the protection does not trip and the test reports etc should make this clear.

Where testing is not feasible, a statement of why such tests were not conducted would be considered sufficient.

**Summary of G59 protection settings on site**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | **No of protection devices** | **No of generating units** | **Total generation capacity  (kW/MW)** |
| Settings of protection devices settings after completion of the ALoMCP works (please specify these and repeat this section for any additional set of settings) | | | | |  |  |  |
|  | Stage 1 (if present) | | Stage 2 | |
| V | s | V | S |
| Over voltage |  |  |  |  |
| Under voltage |  |  |  |  |
|  | Hz | s | Hz | S |
| Over frequency |  |  |  |  |
| Under frequency |  |  |  |  |
| LoM |  | | | |
| Settings of protection devices settings after completion of the ALoMCP works (please specify these and repeat this section for any additional set of settings) | | | | |  |  |  |
|  | Stage 1 (if present) | | Stage 2 | |
| V | s | V | S |
| Over voltage |  |  |  |  |
| Under voltage |  |  |  |  |
|  | Hz | s | Hz | S |
| Over frequency |  |  |  |  |
| Under frequency |  |  |  |  |
| LoM |  | | | |
| Please list any issue, eg a design that may prevent a generating unit on site from maintaining a stable output over the voltage and frequency range determined by its under/over voltage/frequency specified above | | | | | | | |
| Issue 1: | | | | |  |  |  |
| Issue 2: | | | | |  |  |  |
| Issue 3: | | | | |  |  |  |

**Summary of Works Completed at the Site**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | Number | Comments |
| **Protection relays at the site (electromechanical/digital)** | | | | |
| Total items at the site | | |  |  |
| Items requiring no change | | |  |  |
| Items replaced | | |  |  |
| Items reset to RoCoF 1Hzs-1 with 500ms time delay | | |  |  |
| Items that had the LoM protection function disabled | | |  |  |
| Items that required other modifications  (please explain these) | | |  |  |
| Items where a change would be required but is not technically feasible | | |  |  |
|  | Manufacturer | Relay Type |  |  |
| Manufacturer 1[[1]](#footnote-1) |  |  |  |  |
| Manufacturer 2 |  |  |  |  |
| Manufacturer 3 |  |  |  |  |
| **Converter or inverter control systems at the site** | | | | |
| Total items at the facility | | |  |  |
| Items already compliant | | |  |  |
| Items reset to RoCoF 1Hzs-1 with 500ms time delay | | |  |  |
| Items that had the LoM protection function disabled | | |  |  |
| Items that had firmware updated to prevent tripping/reduction of output for Vector Shift and/or RoCoF that is below 1Hzs-1. | | |  |  |
| Items that required additional modifications  (please clarify these) | | |  |  |
| Items where a change would be required but is not technically feasible | | |  |  |
|  | Manufacturer | Converter/Inverter Type |  |  |
| Manufacturer 11 |  |  |  |  |
| Manufacturer 2 |  |  |  |  |
| Manufacturer 3 |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other means of provision of LoM protection at the site** | | |
| Total items at the site |  |  |
| Items already compliant |  |  |
| Items replaced |  |  |
| Items reset to RoCoF 1Hzs-1 with 500ms time delay |  |  |
| Items that had its LoM protection function disabled |  |  |
| Items requiring additional modifications  (please clarify these) |  |  |
| Items where a change would be required but is not technically feasible |  |  |

The presence of items, whether these are protection relays, converter and inverter control systems, or any other device, that could not be changed to prevent it from responding to Vector Shift or RoCoF below 1Hzs‑1 indicates that the works required by the ALoMCP agreement may not be complete and is likely to affect your payment. The impact will depend on the justification provided and will take into account any prior agreements with the DNO/IDNO in relation to this specific change provided that such agreement has been authorised by NGESO.

**Summary of Generating Units at the Site**

|  |  |  |
| --- | --- | --- |
|  | Number | Comments |
| Total number of Synchronous Generating Units |  |  |
| Total number of Doubly Fed Induction Generating (DFIG) Units |  |  |
| Total number of other forms of generation (e.g. full converter, asynchronous) |  |  |
| Number of protection devices that have been replaced where such protection devices are not used to protect Synchronous/DFIG units. |  |  |
| Date at which the application first submitted |  |  |

For applications made on or after the 1st of February 2020, payment rates applicable to Protection Replacement Works will only be made available where the protection device is used to protect a synchronous generating unit or a DFIG unit. Otherwise, payment will be made on the basis of Protection Function Deactivation.

**ALoMCP Compliance Checklist**

|  |  |
| --- | --- |
|  | Yes/No |
| Are there any devices (protection relays/converters/inverters/otherwise) that use Vector Shift as means of provision of Loss of Mains protection? |  |
| If yes please explain/comment: |  |
| Are there any devices (protection relays/converters /inverters/otherwise) that use RoCoF as means of provision of Loss of Mains protection with settings that are not 1Hzs-1 with time delay of 500ms? |  |
| If yes please explain/comment: |  |
| Are there any generating units or converters/inverters that are at risk of tripping/reducing their output in response to detection of   * Vector Shift and/or * RoCoF of less than 1Hzs-1 * RoCoF of 1Hzs-1 or above lasting for a duration less than 500ms. And/or * Frequency settings within the 47.0Hz to 52.0Hz range. |  |
| If yes please explain/comment: |  |

Answering any of these questions by ‘Yes’ indicates that the works required by the ALoMCP agreement may not be complete and is likely to impact your payment. The impact will depend on the justification provided and will take into account any prior agreements with the DNO/IDNO in relation to this specific change provided that such agreement has been authored by NGESO.

1. Please continue on a separate sheet if necessary [↑](#footnote-ref-1)