**A.3 Installation Document for Type A Power Generating Modules (Form A3-1) and Integrated Micro Generation and Storage (Form A3-2)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Form A3-1 : Installation Document for Type A Power Generating Modules**  Please complete and provide this document for every **Power Generating Facility**.  Part 1 should be completed for the **Power Generating Facility**.  Part 2 should be completed for each of the **Power Generating Module**s being commissioned. Where the installation is phased the form should be completed on a per **Generating Unit** basisas each part of the installation is completed in accordance with EREC G99 paragraph 15.3.3. For phased installations reference to **PGM** in this form should be read as reference to **Generating Unit**s. | | | | | | | | | | | | | |
| **Form A3-1 Part 1** | | | | | | | | | | | | | |
| To ABC electricity distribution **DNO**  99 West St, Imaginary Town, ZZ99 9AA [abced@wxyz.com](mailto:abced@wxyz.com) | | | | | | | | | | | | | |
| **Generator Details:** | | | | | | | | | | | | | |
| **Generator** (name) | |  | | | | | | | | | | | |
| Address | |  | | | | | | | | | | | |
| Post Code | |  | | | | | | | | | | | |
| Contact person (if different from **Generator**) | |  | | | | | | | | | | | |
| Telephone number | |  | | | | | | | | | | | |
| E-mail address | |  | | | | | | | | | | | |
| MPAN(s) | |  | | | | | | | | | | | |
| **Generator** signature | |  | | | | | | | | | | | |
| **Installer Details:** | | | | | | | | | | | | | |
| **Installer** | |  | | | | | | | | | | | |
| Accreditation / Qualification | |  | | | | | | | | | | | |
| Address | |  | | | | | | | | | | | |
| Post Code | |  | | | | | | | | | | | |
| Contact person | |  | | | | | | | | | | | |
| Telephone Number | |  | | | | | | | | | | | |
| E-mail address | |  | | | | | | | | | | | |
| **Installer** signature | |  | | | | | | | | | | | |
| **Installation details:** | | | | | | | | | | | | | |
| Address | |  | | | | | | | | | | | |
| Post code | |  | | | | | | | | | | | |
| Location within **Generator’s** **Installation** | |  | | | | | | | | | | | |
| Location of Lockable Isolation Switch | |  | | | | | | | | | | | |
| **Summary details of Power Generating Module**s **-** where multiple **Power Generating Module**s will exist within one **Generator’s Installation** | | | | | | | | | | | | | |
| **Manufacturer** / Reference | Date of Installation | | Technology Type | **Manufacturer**sRef No. (system reference) or Reference to Form A2-1/2/3 or combination of above as applicable | | **Power Generating Module Registered Capacity** in kW | | | | | | | |
| 3-Phase Units | | Single Phase Units | | | | | **Power Factor** |
| PH1 | | | PH2 | PH3 |
|  |  | |  |  | |  | |  | | |  |  |  |
|  |  | |  |  | |  | |  | | |  |  |  |
|  |  | |  |  | |  | |  | | |  |  |  |
|  |  | |  |  | |  | |  | | |  |  |  |
| **Emerging technology classification (if applicable)** | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
| **Commissioning Checks** | | | | | | | | | | | | | |
| **Description** | | | | | | | | | | **Confirmation** | | | |
| **Generator’s Installation** satisfies the requirements of BS7671 (IET Wiring Regulations). | | | | | | | | | | Yes / No\* | | | |
| Suitable lockable points of isolation have been provided between the **PGMs** and the rest of the **Generator’s Installation**. | | | | | | | | | | Yes / No\* | | | |
| Labels have been installed at all points of isolation in accordance with EREC G99. | | | | | | | | | | Yes / No\* | | | |
| Interlocking that prevents **PGM**s being connected in parallel with the **DNO**’s **Distribution Network** (without synchronising) is in place and operates correctly. | | | | | | | | | | Yes / No\* | | | |
| Balance of Multiple Single Phase **PGMs**. Confirm that design of the **Generator’s** **Installation** has been carried out to limit output power imbalance to below 16 A per phase, as required by EREC G99. | | | | | | | | | | Yes / No\* | | | |
| **PGM** installation complies with cyber security requirements | | | | | | | | | | Yes / No\* | | | |
| **Form A3-1 Part 2** | | | | | | | | | | | | | | |
| **Power Generating Module** reference or name | | | | |  | | | | | | | | | |
| **Information to be enclosed** | | | | | | | | | | | | | | |
| Description | | | | | | | | | Confirmation \* | | | | | |
| Schedule of protection settings (may be included in circuit diagram) | | | | | | | | | Yes / No\* | | | | | |
| As installed Standard Application Form data, unless already provided. | | | | | | | | | Yes / No\* | | | | | |
| Final copy of circuit diagram | | | | | | | | | Yes / No\* | | | | | |
| **Commissioning Checks** | | | | | | | | | | | | | | |
| The **Interface Protection** settings have been checked and comply with EREC G99. | | | | | | | | | Yes / No / N/A (**Type Tested**)\* | | | | | |
| The **PGM** successfully synchronises with the **DNO**’s **Distribution Network** without causing significant voltage disturbance. | | | | | | | | | Yes / No\* | | | | | |
| The **PGM** successfully runs in parallel with the **DNO**’s **Distribution Network** without tripping and without causing significant voltage disturbances. | | | | | | | | | Yes / No\* | | | | | |
| The **PGM** successfully disconnects without causing a significant voltage disturbance, when it is shut down. | | | | | | | | | Yes / No\* | | | | | |
| **Interface Protection** operates and disconnects the **DNO**’s **Distribution Network** quickly (within 1 s) when a suitably rated switch, located between the **PGM** and the **DNO**’s incoming connection, is opened. | | | | | | | | | Yes / No\* | | | | | |
| The **PGM** remains disconnected for at least 20 s after switch is reclosed. | | | | | | | | | Yes / No\* | | | | | |
| Loss of tripping and auxiliary supplies. Where applicable, loss of supplies to tripping and protection relays results in either **PGM** or **Generating Unit** forced trip or an alarm to a 24 hour manned control centre. | | | | | | | | | Yes / No\* | | | | | |
| \*Circle as appropriate. If “No” is selected the **Power Generating Facility** is deemed to have failed the commissioning tests and the **Power Generating Module** shall not be put in service. | | | | | | | | | | | | | | |
| Additional comments / observations: | | | | | | | | | | | | | | |
| Declaration – to be completed by **Generator** or **Generator’s** Appointed Technical Representative | | | | | | | | | | | | | | |
| I declare that for the **Type A Power Generating Module** within the scope of this EREC G99, and the installation:  1. Compliance with the requirements of EREC G99 is achieved.  2. The commissioning checks detailed in Form A2-4 have been successfully completed\*.  3. The commissioning checks detailed in this Form A3-1 have been successfully completed.  \*delete if not applicable ie if the **Interface Protection** and ride through capabilities are **Type Tested**. | | | | | | | | | | | | | | |
| Name: | | | | | | | | | | | | | | |
| Signature: | | | | | | | Date: | | | | | | | |
| Company Name: | | | | | | |
| Position: | | | | | | | | | | | | | | |
| Declaration – to be completed by **DNO** Witnessing Representative if applicable. Delete if not witnessed by the **DNO** | | | | | | | | | | | | | | |
| I confirm that I have witnessed:  1. The commissioning checks detailed in Form A2-4 \*;  2. The commissioning checks detailed in this Form A3-1 on behalf of and that the results are an accurate record of the checks.  \*delete if not applicable ie if the **Interface Protection** and ride through capabilities are **Type Tested** | | | | | | | | | | | | | | |
| Name: | | | | | | | | | | | | | | |
| Signature: | | | | | | | Date: | | | | | | | |
| Company Name: | | | | | | |