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| Template change control details |
| Version | Date | Changes |
| 0.1 | 03/06/2014 | First Draft for industry comment |

**Test 43**

**Declarations of Fitness (DOF)**

**[Insert Unit Name] Unit (XX1)**

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# Document Version History

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| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Comment** | **Name** | **Company** |
| 0.1 | Xx/xx/xxxx | XX | User | User |
|  |  |  |  |  |
| 1.0 | Xx/xx/xxxx | Revised to Major version for onsite testing and signoff |  | EirGrid |

# Introduction

The Unit must submit the latest version of this test procedure as published on the EirGrid website[[1]](#footnote-1).

Test 43 requires the approved customer commissioner to submit and record declarations of fitness prior to the synchronisation of the unit.

After approval and closure of the agreed Phase B Test reports with generator\_testing@eirgrid.com the Unit shall complete this document with all required DOF numbers as provided by NCC.

All yellow sections must be completed in advance. All grey sections must be filled in in advance of submission. If any requirements or steps are unclear, or if there is an issue with meeting any requirements or carrying out any steps, please contact generator\_testing@eirgrid.com.

On completion, this document shall be submitted to generator\_testing@eirgrid.com according to the following timeline;

|  |  |
| --- | --- |
| **Submission** | **Timeline** |
| A scanned copy with all relevant signatures | 1 working day |

The Unit will only be synchronised on issuance of Interim Operational Notification (ION). Completion of Test 43 and issuance of the ION may be on the same day if all Phase B tests have been closed in advance. It is the responsibility of the Unit to coordinate closure of Phase B, Test 43 submission and issuance of ION in advance of Synchronisation. This shall be coordinated according to TSO timelines. The ION will be issued by generator\_testing@eirgrid.com with specific date and time of Synchronisation.

# pre Synchronisation Requirements

Should “No” be answered by the Unit to any of the following conditions, this document will not be accepted.

|  |  |  |
| --- | --- | --- |
| **No.** | **Conditions** | **Check on completion of Section 4** |
| 1 | The Unit is registered under test in SEM with Testing Tariff A[[2]](#footnote-2) effective from DD/MM/YYYY to DD/MM/YYYY. | Yes / No |
| 2 | Test Profile and consent form[[3]](#footnote-3) has been submitted and approved by neartime@eirgrid.com. | Yes / No |
| 3 | To allow synchronisation of the Unit, the generator transformer protection settings are confirmed by GridProtection@eirgrid.com. | Yes / No |

Unit Test Coordinator Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_.

# DECLARATION OF FITNESS

All DOFs as agreed with generator\_testing@eirgrid.com must be provided by the commissioner for [insert unit name and three letter code]. NCC will provide DOF numbers, which the commissioner will record below.

|  |  |  |
| --- | --- | --- |
| DOF Number as provided by NCC. | Ref: | Description. |
|  | 1 | All XX1 21kV switch-gear and all 21kV bus ducts are fully tested and fit for service. |
|  | 2 | All protection, interlocking and intertripping schemes are tested and operational. |
|  | 3 | The excitation system, including Automatic Voltage Regulation, is tested and fit for initial operation. |
|  | 4 | The governor system is tested and fit for initial operation. |
|  | 5 | The synchronisation scheme for synchronising across the GI4 21 kV generator circuit breaker CB is fully tested and operational. |
|  | 6 | All signalling (including the Special Protection Scheme) between the XXXXXX Transmission Station, the XXXXXX Power Station interface and the XX1 Control System is fully tested and operational. |
|  | 7 | The Amber, Red and Blue Alerts system is fully tested and operational. Procedures are in place for dealing with Alerts issued by the NCC. |
|  | 8 | Procedures are in place for contacting the NCC when wishing to synchronise, desynchronise or change Active or Reactive power on the generator. |
|  | 9 | All labelling associated with generator transformer bay in accordance with EirGrid naming requirements. |
|  | 10 | The Unit is fit for initial operation and is ready to be synchronised to the system. |

Commissioner Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_.

DOFs will be site specific and will be agreed by generator\_testing@eirgrid.com in advance of first synchronisation.

1. <http://www.eirgrid.com/operations/gridcode/compliancetesting/cdgutestprocedures/#d.en.17699> [↑](#footnote-ref-1)
2. <http://www.allislandproject.org/en/transmission_current_consultations.aspx?article=28dfcb39-73f6-49cc-b303-f6130674a0f2&mode=author> [↑](#footnote-ref-2)
3. <http://www.eirgrid.com/media/GeneratorTestProfileTemplate.xlsx> [↑](#footnote-ref-3)