Introduction to the Operational Notification Process
- How Generators comply with the Grid Code

Operational Notifications Team
Contents

- Purpose
- Overview of process for new connections
- How do I comply?
  - Compliance Toolkit
- Who can I contact I have a problem?
- Issues that have caused delays
- Process for existing connections
Approval to Connect/Energise

Construction Agreement Clause 5:

“……...the User shall submit to The Company a statement of readiness to complete the Commissioning Programme in respect of the Works and the statement submitted by the User shall in addition contain relevant Connected Planning Data and a report certifying to The Company that, to the best of the information, knowledge and belief of the User, all relevant Connection Conditions applicable to the User have been considered and complied with.”
Becoming Operational

Construction Agreement Clause 7:

“The Company shall connect and Energise the User's Equipment at the Connection Site during the course of and in accordance with the Commissioning Programme and thereafter upon compliance by the User with the provisions of Clause 5 and provided .... the Works...shall be completed The Company shall forthwith notify the User in writing that the Connection Site shall become Operational.

This is known as the “Operational Notification” – a formal letter to the User’s representative/Co Secretary.
The Legislative and Contractual Framework

1989 Electricity Act
2000 Utilities Act
2004 Energy Act

Transmission Licence

STC
Transmission Owners

Grid Code
BSC
CUSC

Generation Licences
Distribution Licences
Supply Licences

Seven Year Statement
Charging Statements
Bi-lateral Agreements
Grid Code

- Industry Code governing technical framework
  - Generic Technical Requirements
    - Connection Conditions
  - Site Specific Requirements
    - Technical Appendices (F1 to F5) in Bilateral Agreement
Process for New Connections

Types of Operational Notifications:

- Energisation Operational Notification (EON)
- Interim Operational Notification (ION)
- Final Operational Notification (FON)
Operational Notifications - New

Operational Notification Process for New Connections

1. EON
2. ION
3. All Issues Resolved?
   - Yes
   - No
4. ION Extension
5. All Issues Resolved?
   - Yes
   - No
6. FON
Operational Notification Process

- Timescales
- Your nominated lead contacts
  - Operational Notifications team
  - Compliance Engineer
- Compliance Toolkit
Compliance Toolkit

- Compliance Statement
- User Data File Structure (UDFS)
- Operational Notification Compliance checklist (ONCC)
# Toolkit - Compliance Statement

## Compliance Statement

**Test Generator transmission connected in NGT transmission area**

**Completion Date on 31/10/2008**

**Connection Voltage = 400kV, Registered Capacity = 1000MW, Options: N3**

**Generation Type : Synchronous Plant**

<table>
<thead>
<tr>
<th>Key to Evidence Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;D&quot;</td>
</tr>
<tr>
<td>&quot;O&quot;</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
</tr>
<tr>
<td>&quot;G&quot;</td>
</tr>
<tr>
<td>&quot;S&quot;</td>
</tr>
<tr>
<td>&quot;S&quot;</td>
</tr>
<tr>
<td>&quot;T&quot;</td>
</tr>
<tr>
<td>&quot;TV&quot;</td>
</tr>
</tbody>
</table>

### Key to Compliance: Y = Yes (Compliant), N = No (Non Compliant) or G = Grey

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance Requirement of User</th>
<th>Evidence Requested</th>
<th>Lead Role</th>
<th>UO Role</th>
<th>Compliance Y, N or G</th>
<th>User’s Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 5.2</td>
<td>Please confirm that the following information has been submitted to NGT:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) Updated Planning Code Data, with any estimated values replaced by validated plant data.</td>
<td>P, G, D</td>
<td>SO</td>
<td>2.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) Details of Protection arrangements and settings (see CC 6.2).</td>
<td>P</td>
<td>TO</td>
<td>2.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) Copies of Safety Rules and Local Safety Instructions (see CC 7.2.4) applicable at the User Site.</td>
<td>D</td>
<td>TO</td>
<td>1.2, 1.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(d) Information to enable NGT to prepare Site Responsibility Schedules.</td>
<td>D</td>
<td>TO</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(e) An Operation Diagram (see CC 7.6).</td>
<td>D</td>
<td>TO</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(f) The proposed Name of the User Site.</td>
<td>D</td>
<td>TO</td>
<td>133</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(g) Certificate that Safety Coordinators are authorised and competent pursuant to OCA.</td>
<td>D</td>
<td>TO</td>
<td>139</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(h) PDSU profiles, pursuant to requirements of OCA.</td>
<td>D</td>
<td>TO</td>
<td>111</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) A list of telephone numbers for Joint System incidents.</td>
<td>D</td>
<td>SO</td>
<td>112</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(j) List of managers authorised to sign Site Responsibility Schedules.</td>
<td>D</td>
<td>TO</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(k) Information to enable NGT to prepare Site Common Drawings (see CC 7.3).</td>
<td>D</td>
<td>TO</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(l) A list of telephone numbers of Farmhand (see CC 6.6.53).</td>
<td>D</td>
<td>SO</td>
<td>113</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Toolkit - User Data File Structure

- Electronic implementation of the Compliance Statement structure.
- UDFS structure populated by the User during the Compliance Process.
- Statements, supporting info., reports DRC data, modelling.
- Version control important.
# Toolkit - Compliance Checklist

**National Grid Electricity Transmission PLC**

**GB Reference:** GBEXXXX

## Operational Notification Compliance Checklist

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Information Data and Activity Requirements</th>
<th>Code Agreement Ref.</th>
<th>User Data File Structure Ref.</th>
<th>Initiator</th>
<th>National Grid Responsible Management Unit (RMU)</th>
<th>Required Load Time</th>
<th>Source of Required Load Time</th>
<th>Normal Load Time (default)</th>
<th>Calculated Date</th>
<th>Adopted Date</th>
<th>Guidance Notes and Links to Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Before Start of Commissioning:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Arrange first Operational Notification Planning meeting</td>
<td>National Grid</td>
<td>National Grid - Electricity Customer Team</td>
<td>BCA Immediate</td>
<td>BCA Immediate</td>
<td>08/02/2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMP to be signed and approved by all parties (User, National Grid, TO, DNO or applicable) to confirm responsibility can be transferred to Commissioning Panel</td>
</tr>
<tr>
<td>3</td>
<td>Circulate contact details</td>
<td>National Grid</td>
<td>Commercial - Electricity Customer Team</td>
<td>After first COn</td>
<td>After first COn</td>
<td>01/02/2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Contact details to be circulated promptly following ONP meeting</td>
</tr>
<tr>
<td>4</td>
<td>Produce Compliance Statement</td>
<td>National Grid</td>
<td>Commercial - Electricity Customer Team</td>
<td>After first COn</td>
<td>After first COn</td>
<td>01/02/2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Confirm User Site Name</td>
<td>CC5 2.1(c)</td>
<td>User</td>
<td>Commercial - Electricity Customer Team</td>
<td>Prior to Completion Date</td>
<td>CC 5.2.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A Guide to EMU Registration provides information of TSOA registration. TSOA allows access to submission of planning data</td>
</tr>
<tr>
<td>6</td>
<td>Connect Unit Owner/Operator &amp; Other User Equipment/Equipment Oclusion</td>
<td>6.4</td>
<td>User</td>
<td>NO - Energy requirements</td>
<td>BCA Immediate</td>
<td>BCA Immediate</td>
<td>08/02/2016</td>
<td></td>
<td></td>
<td></td>
<td>A Guide to EMU Registration provides information of TSOA registration. TSOA allows access to submission of planning data</td>
</tr>
<tr>
<td>7</td>
<td>Dotted Planning Data (Committed Project Planning Data) Generating Unit Technical Data</td>
<td>PC 4.4.1</td>
<td>User</td>
<td>BCA Immediate</td>
<td>BCA Immediate</td>
<td>08/02/2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Network Modelling also closely involved in PRC's draft guidelines on submitting GC data</td>
</tr>
<tr>
<td>8</td>
<td>Motivated Unit Data &amp; Alternative Data Info</td>
<td>PC 4.4.2</td>
<td>User</td>
<td>Generator Dynamic Performance</td>
<td>BCA Immediate</td>
<td>BCA Immediate</td>
<td>08/02/2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Connection Type:** DNO | ONS: | N/A | Capacity: 1000MA | TO/Host TC: | National Grid | BM Unit: | Yes |
Issues that have caused delays

- Metering
- Telephony
- Controllability
- Other Agreements
- Requirements of IET process
Contacts

- Operational Notification Queries:
  - Richard Lavender – Manager
  - Steve Hoar
  - Steve Dugmore
  - Fiona Williams
  - Honor Hynes

- Web Page Guidance:
  [http://www.nationalgrid.com/uk/Electricity/Compliance](http://www.nationalgrid.com/uk/Electricity/Compliance)
Process for Existing Connections

Fourth category of Operational Notification issued in relation to existing connections:

- Limited Operational Notification (LON)
Operational Notifications - Existing

Operational Notification Process for Existing Connections

Day 0

The “User” or “NGET” becomes aware that the Generator may be unable to comply with Grid Code.

Day 84

Problem Solved?

Yes

No

LON

All Issues Resolved?

Yes

No

LON Extension

All Issues Resolved?

Yes

No

FON

Operation Under Existing FON

Day 365

Derogation?
The End