



A REPORT TO THE AUTHORITY
Pursuant to Paragraph 2 of Condition C14 of the
Transmission Licence

Grid Code Requirements for System to Generator
Operational Intertripping Scheme

**The purpose of this document is to assist the Authority in its
decision of whether to implement the proposed
Grid Code Modification**

Consultation Paper Ref	F/08
Issue	1.0
Date of Issue	26 th January 2009
Prepared by	National Grid

DISTRIBUTION

Name	Organisation
Authority	Ofgem
Grid Code Review Panel Members	Various
National Grid Industry Information Website	

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SUMMARY OF PROPOSALS

- 0.1 At the Grid Code Review Panel in May 2008, National Grid proposed to amend the Grid Code such that it provided greater transparency and clarity as to the generic information which will be specified in a Bilateral Agreement regarding the System to Generator Operational Intertripping Scheme; including information regarding the functional specification and performance of the scheme.
- 0.2 National Grid has consulted Authorised Electricity Operators on this issue. All respondents were supportive of the proposal.
- 0.3 National Grid recommends to the Authority that these proposals be approved. The proposals will provide additional greater User understanding regarding what comprises a System to Generator Operational Intertripping Scheme and information regarding the timing of the automatic opening of the circuit breaker(s) such that Users can assess the impact on their plant and apparatus.
- 0.4 The provisions outlined in F/08 Report to the Authority will not have any adverse impact on the planning, maintenance and operation of the GB Transmission System.
- 0.5 The provisions, regarding the generic information which will be included in the Bilateral Agreement, will be applicable from the implementation date of the change (subject to the Authority approval) therefore minimising any materiality to the GB Transmission System which may have potentially arisen if the provisions were to be applied retrospectively.

A. INTRODUCTION

1. Paragraph 2 of Condition C14 of the Transmission Licence granted to National Grid Electricity Transmission plc ("National Grid") provides that National Grid shall, in consultation with Authorised Electricity Operators liable to be materially affected thereby, periodically review the Grid Code and its implementation. That paragraph also requires National Grid, following such review, to send to the Authority:-
 - (a) a report on the outcome of such review;
 - (b) any proposed revisions to the Grid Code as National Grid (having regard to the outcome of such review) reasonably thinks fit for the achievement of the objectives set out in sub-paragraph (b) of Condition C14 of the Transmission Licence; and
 - (c) any written representations or objections from authorised electricity operators (including any proposals by such operators for revisions to the Grid Code not accepted by National Grid in the course of the review) arising during the consultation process and subsequently sustained.
2. This review examines the existing Grid Code provisions for the System to Generator Operational Intertripping Scheme and proposes amendments to the requirements such that additional User clarity and transparency are incorporated within the Code.
3. The proposed changes to the Grid Code were discussed with the Grid Code Review Panel (GCRP) on 15th May 2008. Panel Members agreed that National Grid should issue a Consultation Paper regarding the proposed changes.
4. National Grid, in accordance with its obligations under its Transmission Licence, consulted Authorised Electricity Operators by including Consultation Paper F/08 on the National Grid Industry Information website. Consultation Paper F/08 contained an explanation of the proposed amendments to the Grid Code and a copy of Consultation Paper F/08 is attached to this Report as Appendix B. National Grid informed interested parties that a copy of the Consultation Paper had been placed on its website to ensure its wide availability.
5. Comments were invited from all such Authorised Electricity Operators by 19th December 2009. National Grid received two responses from Authorised Electricity Operators.
6. The proposed revisions to the Grid Code are explained below.

B. DESCRIPTION OF THE PROPOSED AMENDMENTS AND THEIR EFFECTS

7. Background

7.1 An Operational Intertrip is utilised by National Grid (in their role as GB System Operator (GBSO)) to operate and manage the GB Transmission System following a secured event (as defined in the GB SQSS) on the GB Transmission System.

7.2 An Operational Intertrip can be used to automatically trip circuit breakers to prevent abnormal system conditions arising. The automatic tripping is usually triggered after the tripping of other circuit breakers following some unplanned event. The 'signal' to intertrip is delivered from predetermined transmission circuits should a fault occur on these circuits. The requirement for an Operational Intertrip is usually identified at the time of connecting a User to the GB Transmission System and the site specific information is contained within the Bilateral Agreement that is agreed between National Grid and the applicable party.

7.3 The System to Generator Operational Intertrip is a specific type of Operational Intertrip. The associated scheme, introduced by CAP076 (Treatment of System to Generator Intertripping Scheme), classifies four different categories of intertrips, formally defined in the Grid Code, which are utilised by National Grid to manage specific risks on the GB Transmission System. Section 4 (Balancing Services) of the CUSC specifies the commercial arrangements for the arming and disarming of the System to Generator Operational Intertripping Scheme and describes the mechanism for the administration of associated payments.

7.4 The current Grid Code provision does not specify what a System to Generator Operational Intertripping Scheme consists of and what a User may expect from the installation of such a scheme. From a User perspective, it is accepted that it would be beneficial if the Grid Code provided additional clarity as to what might comprise a System to Generator Operational Intertripping Scheme; including information regarding the functional specification and performance of the scheme.

8. Proposed Grid Code Changes

8.1 It is proposed to amend the Grid Code such that it provides greater transparency and clarity as to the generic information which will be specified within the Bilateral Agreement. It is proposed that, in the event of the proposal being approved, any future Bilateral Agreements specifying a System to Generator Operational Intertripping Scheme will contain the following information:

- category of System to Generator Operational Intertripping Scheme;
- generating unit(s) which can be instructed or are permanently 'armed';
- approximate time which it will take the circuit breaker(s) to open automatically after the trip signal has been received;
- location of the trip signal.

8.2 The provisions will also provide generic technical information regarding what a User may expect in terms of the timing of the trip and potential alternative options which may be available in certain operational circumstances.

8.3 The definition of System to Operational Intertripping Scheme will also be amended such that it is reflective of the CAP122 (Change to the definition of Intertrip Payment for Power Park Modules) provisions which extended the categories of the System to Operational Intertripping Scheme to include Power Park Modules.

9. Impact on GB Transmission System

9.1 The proposed changes would not have any adverse impact on planning, maintenance and operation of the GB Transmission System.

9.2 The provisions, regarding the generic information which will be included in the Bilateral Agreement, will be applicable from the implementation date of the change (subject to the Authority approval) therefore minimising any materiality to the GB Transmission System which may have potentially arisen if the provisions were to be applied retrospectively.

10. Impact on Grid Code Users

10.1 The proposals will provide greater User understanding regarding what comprises a System to Generator Operational Intertripping Scheme and information regarding the timing of the automatic opening of the circuit breaker(s) such that they can assess the impact on their plant and apparatus.

11. Assessment Against Grid Code Objectives

11.1 The proposed changes outlined in F/08 Report to the Authority would better facilitate Grid Code Objectives:

- i) to permit the development, maintenance and operational of an efficient, co-ordinated and economical system of the transmission of electricity

by ensuring that the Grid Code provides additional clarity and transparency to Users regarding the System to Generator Operational Intertripping Scheme.

12. Impact on Industry Documents

12.1 *Impact on Core Industry Documents*

12.1.1 Grid Code Report to the Authority F/08 has no impact upon Core Industry Documents.

12.2 *Impact on other Industry Documents*

12.2.1 Grid Code Report to the Authority F/08 has no impact upon other Industry Documents.

13. Environmental Impact Assessment

13.1 Grid Code Consultation F/08 (Grid Code Requirements for System to Generator Operational Intertripping Scheme) will have no additional environmental impact as it clarifying an existing administrative provision.

C. CONSULTATION RESPONSES

14. National Grid has consulted Authorised Electricity Operators on this issue. Two responses were received. Respondents were supportive of the proposal which assist Users by improving clarity regarding the technical requirements for System to Generators Intertripping Scheme. These responses, along with National Grid's replies, are included as Appendix C.
15. Respondent F/08-CR-01 (RWE Supply and Trading) were supportive of the proposed amendments.
16. Respondent F/08-CR-02 (Scottish and Southern Energy) indicated their support for the proposed amendments.

D. LEGAL TEXT AND RECOMMENDATIONS

17. Glossary Definition

- 17.1 It is proposed to amend the existing definition of 'System to Generator Operational Intertripping Scheme' such that the term is reflective of the CAP122 (Change to the definition of Intertrip Payment for Power Park Modules) provisions which extended the categories of the System to Operational Intertripping Scheme to include Power Park Modules.

18. Connection Conditions

- 18.1 It is proposed to amend the Connection Conditions such that it provides greater transparency and clarity as to the generic information which will be specified within the Bilateral Agreement regarding System to Generator Operational Intertripping Scheme.
- 18.2 The provisions will also provide generic technical information regarding what a User may expect in terms of the timing of the trip and potential alternative options which may be available in certain operational circumstances.

19. Recommendation

- 19.1 National Grid recommends to the Authority that these proposals be approved such that there is additional User clarity, within the Grid Code, as to what might comprise a System to Generator Operational Intertripping Scheme; including information regarding the functional specification and performance of the scheme.
20. The proposed Grid Code changes are shown in Appendix A with deletions shown struck through and insertions highlighted by text in red with a double underline. Changes to the legal text which was consulted upon are highlighted in yellow.
21. As indicated above, having regard to the outcome of the review described in this Report, National Grid proposes the revisions to the Grid Code set out in Appendix A, which revisions we reasonably think fit for the achievement of the objectives referred to in sub-paragraph (b) of paragraph 1 of Condition C14 of the Transmission Licence. In view of this, National Grid would be grateful if the Authority would approve the revisions pursuant to paragraph 3 of Condition C14 of the Transmission Licence.

22. Given the logistic exercise of organising replacement pages to reflect the changes required by your letter of approval, I would be grateful if you would contact me prior to issuing any letter specifying an effective date in order to ensure that the date is consistent with any other Code changes which may then be approved or be close to being approved.

Lilian Macleod

APPENDIX A: PROPOSED GRID CODE CHANGES

The proposed legal text is reflective of the current Grid Code baseline as specified in Issue 3 Revision 32.

Connection Conditions Changes

CONNECTION CONDITIONS CODE

Amend clause CC.6.3.17 and insert new CC.6.3.18 as follows:

CC.6.3.17 **NGET** may require that a **System to Generator Operational Intertripping Scheme** be installed as part of a condition of the connection of the **Generator**. Scheme specific details shall be included in the relevant **Bilateral Agreement** and shall, in respect of **Bilateral Agreements** entered into on or after [date of implementation of change], include the following information:

1. the relevant category(ies) of the scheme (referred to as **Category 1 Intertripping Scheme, Category 2 Intertripping Scheme, Category 3 Intertripping Scheme** and **Category 4 Intertripping Scheme**):
2. the **Generating Unit(s) or CCGT Module(s) or Power Park Module(s)** to be either permanently armed or that can be instructed to be armed in accordance with BC2.8;
3. the time within which the **Generating Unit(s) or CCGT Module(s) or Power Park Module(s)** circuit breaker(s) are to be automatically tripped;
4. the location to which the trip signal will be provided by **NGET**. Such location will be provided by **NGET** prior to the commissioning of the **Generating Unit(s) or CCGT Module(s) or Power Park Module(s)**.

Where applicable, the **Bilateral Agreement** shall include the conditions on the **GB Transmission System** during which **NGET** may instruct the **System to Generator Operational Intertripping Scheme** to be armed and the conditions that would initiate a trip signal.

CC.6.3.18 The time within which the **Generating Unit(s)** circuit breaker(s) need to be automatically tripped is determined by the specific conditions local to the **Generator**. This 'time to trip' (defined as time from provision of the trip signal by **NGET** to the specified location, to circuit breaker main contact opening) can typically range from 100ms to 10sec. A longer time to trip may allow the initiation of an automatic reduction in the **Generating Unit(s) or CCGT Module(s) or Power Park Module(s)** output prior to the automatic tripping of the **Generating Unit(s) or CCGT Module(s) or Power Park Module(s)** circuit breaker. Where applicable **NGET** may provide separate trip signals to allow for either a longer or shorter 'time to trip' to be initiated.

Glossary and Definitions Changes

GLOSSARY AND DEFINITIONS

Amend the existing definition of '**System to Generator Operational Intertripping Scheme**' as follows:

System to Generator Operational Intertripping Scheme A **System to Generating Unit** or **System to CCGT Module** or **System to Power Park Module** intertripping scheme forming a condition of connection and specified in Appendix F3 of the relevant **Bilateral Agreement**, being either a **Category 1 Intertripping Scheme**, **Category 2 Intertripping Scheme**, **Category 3 Intertripping Scheme** or **Category 4 Intertripping Scheme**.

APPENDIX B: CONSULTATION PAPER F/08



**GRID CODE
CONSULTATION DOCUMENT**

**Grid Code Requirements for System to Generator
Operational Intertripping Scheme**

The purpose of this document is to consult on the above Grid Code Modification Proposal with Authorised Electricity Operators liable to be materially affected by the proposed changes and forms the basis of the subsequent Report to the Authority

Consultation Ref	F/08
Issue	1.0
Date of Issue	21 st November 2008
Responses required by	19th December 2008
Prepared by	National Grid

DOCUMENT LOCATION

National Grid website:

<http://www.nationalgrid.com/uk/Electricity/Codes/gridcode/consultationpapers/>

DISTRIBUTION

Name	Organisation
AEO's	Various
GCRP Members/Alternates	Various
Interested Parties	Various
National Grid Website	

A. INTRODUCTION

1. Paragraph 2 of Condition C14 of the Transmission Licence granted to the National Grid Electricity Transmission plc ("National Grid") provides that National Grid shall, in consultation with Authorised Electricity Operators liable to be materially affected thereby, periodically review the Grid Code and its implementation. That paragraph also requires National Grid, following such review, to send to the Authority:-
 - (a) a report on the outcome of such review;
 - (b) any proposed revisions to the Grid Code as National Grid (having regard to the outcome of such review) reasonably thinks fit for the achievement of the objectives set out in sub-paragraph (b) of Condition C14 of the Transmission Licence; and
 - (c) any written representations or objections from Authorised Electricity Operators (including any proposals by such operators for revisions to the Grid Code not accepted by National Grid in the course of the review) arising during the consultation process and subsequently maintained.
2. This review examines the existing Grid Code provisions for the System to Generator Operational Intertripping Scheme and proposes amendments to the requirements such that additional User clarity and transparency are incorporated within the Code.
3. The proposed changes to the Grid Code were discussed with the Grid Code Review Panel (GCRP) on 15th May 2008. Panel Members agreed that National Grid should issue a Consultation Paper regarding the proposed changes.
4. Comments upon the proposed changes within this consultation should be sent to National Grid by **19th December 2008** as detailed in section C. The comments will be reviewed and responded to.
5. Following this consultation, National Grid will prepare a Report to the Authority detailing National Grid's recommended changes to the Grid Code and all comments/responses received from Authorised Electricity Operators through this consultation. Once sent to the Authority this report will be made available on National Grid's website.
6. Where Authorised Electricity Operators' responses have been marked as confidential they will not be published within the version of the Report to the Authority placed on the National Grid website.
7. The revisions to the Grid Code proposed by National Grid and sent to the Authority, require approval by that body and will, if approved, come into force on such date (or dates) of which you will be notified by National Grid, in accordance with the Authority's approval.

B. DESCRIPTION OF THE PROPOSED AMENDMENTS AND THEIR EFFECTS

8. Background

8.1 An Operational Intertrip is utilised by National Grid (in their role as GB System Operator (GBSO)) to operate and manage the GB Transmission System following a secured event (as defined in the GB SQSS) on the GB Transmission System.

8.2 An Operational Intertrip can be used to automatically trip circuit breakers to prevent abnormal system conditions arising. The automatic tripping is usually triggered after the tripping of other circuit breakers following some unplanned event. The 'signal' to intertrip is delivered from predetermined transmission circuits should a fault occur on these circuits. The requirement for an Operational Intertrip is usually identified at the time of connecting a User to the GB Transmission System and the site specific information is contained within the Bilateral Agreement that is agreed between National Grid and the applicable party.

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8.4 The current Grid Code provision does not specify what a System to Generator Operational Intertripping Scheme consists of and what a User may expect from the installation of such a scheme. From a User perspective, it is accepted that it would be beneficial if the Grid Code provided additional clarity as to what might comprise a System to Generator Operational Intertripping Scheme; including information regarding the functional specification and performance of the scheme.

9. Proposed Grid Code Changes

9.1 It is proposed to amend the Grid Code such that it provides greater transparency and clarity as to the generic information which will be specified within the Bilateral Agreement. It is proposed that, in the event of the proposal being approved, any future Bilateral Agreements specifying a System to Generator Operational Intertripping Scheme will contain the following information:

- category of System to Generator Operational Intertripping Scheme;
- generating unit(s) which can be instructed or are permanently 'armed';
- approximate time which it will take the circuit breaker(s) to open automatically after the trip signal has been received;
- location of the trip signal.

- 9.2 The provisions will also provide generic technical information regarding what a User may expect in terms of the timing of the trip and potential alternative options which may be available in certain operational circumstances.
- 9.3 The definition of System to Operational Intertripping Scheme will also be amended such that it is reflective of the CAP122 (Change to the definition of Intertrip Payment for Power Park Modules) provisions which extended the categories of the System to Operational Intertripping Scheme to Power Park Modules.
- 9.4 The proposed legal changes to the Connection Conditions and Glossary and Definitions are shown in Appendix A.

10. Impact on GB Transmission System

- 10.1 The proposed changes would not have any adverse impact on planning, maintenance and operation of the GB Transmission System.
- 10.2 The provisions, regarding the generic information which will be included in the Bilateral Agreement, will be applicable from the implementation date of the change (subject to the Authority approval) therefore minimising any materiality to the GB Transmission System which may have potentially arisen if the provisions were to be applied retrospectively.

11. Impact on Grid Code Users

- 11.1 The proposals will provide greater User understanding regarding what comprises a System to Generator Operational Intertripping Scheme and information regarding the timing of the automatic opening of the circuit breaker(s) such that they can assess the impact on their plant and apparatus.

12. Assessment Against Grid Code Objectives

- 12.1 The proposed changes outlined in F/08 Consultation document would better facilitate Grid Code Objectives:
- i) to permit the development, maintenance and operational of an efficient, co-ordinated and economical system of the transmission of electricity

by ensuring that the Grid Code provides additional clarity and transparency to Users regarding the System to Generator Operational Intertripping Scheme.

13. Impact on Industry Documents

13.1 *Impact on Core Industry Documents*

13.1.1 Grid Code Consultation F/08 (Grid Code Requirements for System to Generator Operational Intertripping Scheme) has no impact upon Core Industry Documents.

13.2 *Impact on other Industry Documents*

13.2.1 Grid Code Consultation F/08 (Grid Code Requirements for System to Generator Operational Intertripping Scheme) has no impact upon other Industry Documents.

14. Environmental Impact Assessment

14.1 Grid Code Consultation F/08 (Grid Code Requirements for System to Generator Operational Intertripping Scheme) will have no additional environmental impact as it clarifying an existing administrative provision.

C. RESPONSES

15. This section will contain a summary of responses received during the Consultation and will be completed as part of the Report to the Authority.

16. Views are invited upon the proposals outlined in this report. Especially views on the following areas would be welcomed:

- Impact of the proposals on Grid Code Users.

17. Your formal responses may be:-

Posted to: Lilian Macleod
Electricity Codes
Regulatory Frameworks
National Grid Electricity Transmission plc
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Emailed to: lilian.macleod@uk.ngrid.com

Appendix A: Proposed Grid Code Changes

Connection Conditions Changes

CONNECTION CONDITIONS CODE

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2. the **Generating Unit(s)** or **CCGT Module(s)** or **Power Park Module(s)** to be either permanently armed or that can be instructed to be armed in accordance with BC2.8;
3. the time within which the **Generating Unit(s)** or **CCGT Module(s)** or **Power Park Module(s)** circuit breaker(s) are to be automatically tripped;
4. the location to which the trip signal will be provided by **NGET**. Such location will be provided by **NGET** prior to the commissioning of the **Generating Unit(s)** or **CCGT Module(s)** or **Power Park Module(s)**.

Where applicable, the **Bilateral Agreement** shall include the conditions on the **GB Transmission System** during which **NGET** may instruct the **System to Generator Operational Intertripping Scheme** to be armed and the conditions that would initiate a trip signal.

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GLOSSARY AND DEFINITIONS

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APPENDIX C: CONSULTATION RESPONSES TO THE PROPOSED CHANGE

The following Appendix contains copies of all representations received from Authorised Electricity Operators through the consultation period.

Original Responses to B/08 Consultation

No.	Company	File Number
1	RWE Supply and Trading	F/08-CR-01
2	SAIC on behalf of Scottish Power Energy Wholesale	F/08-CR-02

National Grid Replies to Consultation Responses

No.	Company	File Number
1	RWE Supply and Trading	F/08-CRR-01
2	SAIC on behalf of Scottish Power Energy Wholesale	F/08-CRR-02

Reference	F/08-CR-01
Company	RWE Supply and Trading

RWE Supply & Trading



Ms L Macleod
Electricity Codes, Commercial Frameworks
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National Grid House
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Gallows Hill
Warwick
CV34 6DA

Name John Norbury
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lilian.macleod@uk.ngrid.com

19th December 2008

Dear Lilian

**Grid Code Consultation Document F/08: Grid Code Requirement for System to Generator
Operational Intertripping Scheme**

Thank you for the opportunity to comment on the above Grid Code consultation. The following response is provided on behalf of the RWE group of companies, including RWE Npower plc, RWE Trading GmbH and RWE Innogy GmbH.

RWE supports this proposed change to the Grid Code. We believe it will assist Users by improving the clarity in the requirements for system to generator Intertripping schemes. We were pleased to participate in the discussions at the Grid Code Review Panel and, as such, have no further comments on the proposed text.

Yours sincerely

John Norbury
Network Connections Manager

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Peter Terlum (CEO)
Dr Bernhard Günther
Stefan Judisch
Dr Peter Kreuzberg
Member of the extended
Board of Directors
(General Representative):
Dr. Wolfgang Peters
Head Office:
Essen, Germany
Registered at:
Local District Court, Essen
Registered No.
HR B 14327

Reference	F/08-CR-02
Company	SAIC on behalf of Scottish Power Energy Wholesale



Lilian Macleod
Electricity Codes
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National Grid Electricity Transmission plc
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Ref GC F/08
Date 26th November 2008

Tel No 01355 845208
Email: ukelectricityspoc@saic.com

Dear Lilian,

Consultation Document for F/08: Grid Code Requirements for Technical Performance

ScottishPower welcomes the opportunity to provide comment on the above consultation. This response is submitted on behalf of ScottishPower's Energy Wholesale Business which includes ScottishPower Generation Ltd and ScottishPower Energy Management Ltd.

ScottishPower are supportive of the proposed changes to the Grid Code. These arrangements are already in existence for connected Parties, and the changes will only apply to new connection agreements going forward. This will make it clearer for these Parties entering into agreements with National Grid what they can expect to happen when these intertrips occur.

I trust that you will find these comments helpful. Nonetheless, should you require further clarification of any of the above, please do not hesitate to contact me.

Yours sincerely,

Gary Henderson



For and on behalf of: ScottishPower's Energy Wholesale Business which includes ScottishPower Generation Ltd and ScottishPower Energy Management Ltd.

Reference	F/08-CRR-01
Company	RWE Supply and Trading



National Grid House
Warwick Technology Park
Gallows Hill, Warwick
CV34 6DA

John Norbury
Network Connections Manager
RWE Supply and Trading
Windmill Hill Business Park
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Lilian Macleod
Senior Regulatory Analyst

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12th January 2009

Dear John

Grid Code Consultation F/08: Grid Code Requirements for System to Generator Operational Intertripping Scheme

Thank you for your comments on the above Grid Code consultation received on 19th December 2008.

We note your support of the proposed revisions to the Grid Code. Your comments will be included in the associated Report to the Authority.

Thank you for taking time to respond to this consultation.

Yours sincerely

Lilian Macleod
Senior Regulatory Analyst, Regulation Strategy

National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

Reference	F/08-CRR-02
Company	SAIC on behalf of Scottish Power Energy Wholesale



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Lilian Macleod
Senior Regulatory Analyst

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12th January 2009

Dear Gary

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Thank you for your comments on the above Grid Code consultation received on 26th November 2008.

We note your support of the proposed revisions to the Grid Code. Your comments will be included in the associated Report to the Authority.

Thank you for taking time to respond to this consultation.

Yours sincerely

Lilian Macleod
Senior Regulatory Analyst, Regulation Strategy

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