OPERATING CODE NO. 8 APPENDIX 2

(OC8B)

SAFETY CO-ORDINATION IN RESPECT OF THE SCOTTISH TRANSMISSION SYSTEMS OR THE SYSTEMS OF SCOTTISH USERS

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OC8B.1 INTRODUCTION

OC8B specifies the standard procedures to be used by NGET, the Relevant Scottish Transmission Licensees and Scottish Users for the co-ordination, establishment and maintenance of necessary Safety Precautions when work is to be carried out on or near the Scottish Transmission System or the System of a Scottish User and when there is a need for Safety Precautions on HV Apparatus on the other's System for this work to be carried out safely. OC8B applies to Relevant Scottish Transmission Licensees and Scottish Users. Where work is to be carried out on or near equipment on an E&W Transmission System or the Systems of E&W Users, but such work requires Safety Precautions to be established on a Scottish Transmission System or the Systems of Scottish Users, OC8B should be followed by the Relevant Scottish Transmission Licensee and Scottish Users to establish the required Safety Precautions.

OC8A specifies the procedures to be used by the Relevant E&W Transmission Licensee and E&W Users.

NGET shall procure that **Relevant Scottish Transmission Licensees** shall comply with **OC8B** where and to the extent that such section applies to them.

In this OC8B the term "work" includes testing, other than System Tests which are covered by OC12.

- OC8B also covers the co-ordination, establishment and maintenance of necessary safety precautions on the Implementing Safety Co-ordinator's System when work is to be carried out at a Scottish User's Site or a Transmission Site (as the case may be) on equipment of the Scottish User or the Relevant Scottish Transmission Licensee as the case may be where the work or equipment is near to HV Apparatus on the Implementing Safety Co-ordinator's System. In the case of OTSUA, a Scottish User's Site or Transmission Site shall, for the purposes of this OC8B, include a site at which there is a Transmission Interface Point until the OTSUA Transfer Time and the provisions of this OC8B and references to OTSUA shall be construed and applied accordingly until the OTSUA Transfer Time at which time arrangements in respect of the Transmission Interface Site will have been put in place between the Relevant Scottish Transmission Licensee and the Offshore Transmission Licensee.
- OC8B.1.3 OC8B does not apply to the situation where Safety Precautions need to be agreed solely between Scottish Users. OC8B does not apply to the situation where Safety Precautions need to be agreed solely between Transmission Licensees.
- OC8B.1.4 OC8B does not seek to impose a particular set of Safety Rules on Relevant Scottish Transmission Licensees and Scottish Users. The Safety Rules to be adopted and used by the Relevant Scottish Transmission Licensee and each Scottish User shall be those chosen by each.
- OC8B.1.5 **Site Responsibility Schedules** document the control responsibility for each item of **Plant** and **Apparatus** for each site.
- OC8B.1.6 (a) The Relevant Scottish Transmission Licensee may agree alternative site-specific operational procedures with Scottish Users for the co-ordination, establishment and maintenance of Safety Precautions instead of the Record of Inter-System Safety Precautions ("RISSP") procedure detailed in this OC8B. Such operational procedures shall satisfy the requirements of paragraphs OC8B.1.7, OC8B.2.1, OC8B.4.1, OC8B.4.2, OC8B.9, OC8B.10. These alternative site-specific operational procedures for the co-ordination, establishment and maintenance of Safety Precautions will be referenced in the relevant Site Responsibility Schedule.

- (b) The Relevant Scottish Transmission Licensee may agree with Scottish Users site-specific procedures for the application of Safety Precautions across the interface between Relevant Scottish Transmission Licensee and Scottish User in addition to and consistent with either the RISSP procedure or the alternative site-specific operational procedures described in OC8B.1.6 (a). These site-specific procedures will be referenced in the relevant Site Responsibility Schedule.
- (c) The **Relevant Scottish Transmission Licensee** and the **Scottish User** shall comply with the procedures agreed pursuant to OC8B.1.6 (a) and OC8B.1.6 (b).

OC8B.1.7 Defined Terms

- OC8B.1.7.1 **Scottish Users** should bear in mind that in **OC8** only, in order that **OC8** reads more easily with the terminology used in certain **Safety Rules**, the term "**HV Apparatus**" is defined more restrictively and is used accordingly in **OC8B**. **Scottish Users** should, therefore, exercise caution in relation to this term when reading and using **OC8B**.
- OC8B.1.7.2 In **OC8** only the following terms shall have the following meanings:
 - (1) "HV Apparatus" means High Voltage electrical circuits forming part of a System, on which Safety From The System may be required or on which Safety Precautions may be applied to allow work to be carried out on a System.
 - (2) "Isolation" means the disconnection of **Apparatus** from the remainder of the **System** in which that **Apparatus** is situated by either of the following:
 - (a) an **Isolating Device** maintained in an isolating position. The isolating position must either be:
 - (i) maintained by immobilising and Locking the Isolating Device in the isolating position and affixing a Caution Notice to it. Where the Isolating Device is Locked with a Safety Key, the Safety Key must be secured in a Key Safe and the Key Safe Key must be given to the authorised site representative of the Requesting Safety Co-ordinator where reasonably practicable and is to be retained in safe custody. Where not reasonably practicable the Key Safe Key must be retained by the authorised site representative of the Implementing Safety Co-ordinator in safe custody; or
 - (ii) maintained and/or secured by such other method which must be in accordance with the **Safety Rules** of the **Relevant Scottish Transmission Licensee** or that **Scottish User**, as the case may be; or
 - (b) an adequate physical separation which must be in accordance with, and maintained by, the method set out in the Safety Rules of the Relevant Scottish Transmission Licensee or that Scottish User, as the case may be, and, if it is a part of that method, a Caution Notice must be placed at the point of separation; or
 - (c) in the case where the relevant HV Apparatus of the Implementing Safety Coordinator is being either constructed or modified, an adequate physical separation as a result of a No System Connection.
 - (3) "No System Connection" means an adequate physical separation (which must be in accordance with, and maintained by, the method set out in the Safety Rules of the Implementing Safety Co-ordinator's HV Apparatus from the rest of the Implementing Safety Co-ordinator's System where such HV Apparatus has no installed means of being connected to, and will not for the duration of the Safety Precaution be connected to, a source of electrical energy or to any other part of the Implementing Safety Co-ordinator's System.
 - (4) "Earthing" means a way of providing a connection between conductors and earth by an Earthing Device which is either:
 - (i) immobilised and Locked in the earthing position. Where the Earthing Device is Locked with a Safety Key, the Safety Key must be secured in a Key Safe and the Key Safe Key must be given to the authorised site representative of the Requesting Safety Co-ordinator where reasonably practicable and is to be retained in safe custody. Where not reasonably practicable the Key Safe Key must be retained by the authorised site representative of the Implementing Safety Coordinator in safe custody; or
 - (ii) maintained and/or secured in position by such other method which must be in accordance with the Safety Rules of the Relevant Scottish Transmission Licensee or that Scottish User as the case may be.

OC8B.1.7.3 For the purpose of the co-ordination of safety relating to **HV Apparatus** the term "**Safety Precautions**" means **Isolation** and/or **Earthing**.

OC8B.2 OBJECTIVE

- OC8B.2.1 The objective of **OC8B** is to achieve:-
 - (i) Safety From The System when work on or near a System necessitates the provision of Safety Precautions on another System on HV Apparatus up to a Connection Point (or, in the case of OTSUA, Transmission Interface Point); and
 - (ii) Safety From The System when work is to be carried out at a Scottish User's Site or a Transmission Site (as the case may be) on equipment of the Scottish User or the Relevant Scottish Transmission Licensee (as the case may be) where the work or equipment is near to HV Apparatus on the Implementing Safety Co-ordinator's System.
- OC8B.2.2 A flow chart, set out in **OC8B** Appendix C, illustrates the process utilised in **OC8B** to achieve the objective set out in OC8B.2.1. In the case of a conflict between the flow chart and the provisions of the written text of **OC8B**, the written text will prevail.

OC8B.3 <u>SCOPE</u>

- OC8B.3.1 OC8B applies to NGET, Relevant Scottish Transmission Licensees and to Scottish Users, which in OC8 means:-
 - (a) Generators (including where undertaking OTSDUW);
 - (b) Network Operators; and
 - (c) Non-Embedded Customers.

The procedures for the establishment of safety co-ordination by **NGET** in relation to **External Interconnections** are set out in **Interconnection Agreements** with relevant persons for the **External Interconnections**.

OC8B.4 PROCEDURE

OC8B.4.1 Approval Of Safety Rules

- OC8B.4.1.1 (a) In accordance with the timing requirements of its **Bilateral Agreement**, each **Scottish User** will supply to the **Relevant Scottish Transmission Licensee** a copy of its **Safety Rules** relating to its side of the **Connection Point** at each **Connection Site** or in the case of **OTSUA** a copy of its **Local Safety Instructions** relating to its side of the **Transmission Interface Point** at each **Transmission Interface Site**.
 - (b) In accordance with the timing requirements of each Bilateral Agreement the Relevant Scottish Transmission Licensee will supply to each Scottish User a copy of its Safety Rules relating to the Transmission side of the Connection Point at each Connection Site or in the case of OTSUA a copy of its Local Safety Instructions relating to the Transmission side of the Transmission Interface Point at each Transmission Interface Site.
 - (c) Prior to connection the **Relevant Scottish Transmission Licensee** and the **Scottish User** must have approved each other's relevant **Safety Rules** in relation to **Isolation** and **Earthing**.

- OC8B.4.1.2 Either party may require that the **Isolation** and/or **Earthing** provisions in the other party's **Safety Rules** affecting the **Connection Site** (or, in the case of **OTSUA**, **Transmission Interface Site**) should be made more stringent in order that approval of the other party's **Safety Rules** can be given. Provided these requirements are not unreasonable, the other party will make such changes as soon as reasonably practicable. These changes may need to cover the application of **Isolation** and/or **Earthing** at a place remote from the **Connection Site** (or, in the case of **OTSUA**, **Transmission Interface Site**), depending upon the **System** layout. Approval may not be withheld because the party required to approve reasonably believes the provisions relating to **Isolation** and/or **Earthing** are too stringent.
- OC8B.4.1.3 If, following approval, a party wishes to change the provisions in its **Safety Rules** relating to **Isolation** and/or **Earthing**, it must inform the other party. If the change is to make the provisions more stringent, then the other party merely has to note the changes. If the change is to make the provisions less stringent, then the other party needs to approve the new provisions and the procedures referred to in OC8B.4.1.2 apply.
- OC8B.4.2 <u>Safety Co-ordinators</u>
- OC8B.4.2.1 For each Connection Point (or, in the case of OTSUA, Transmission Interface Point), the Relevant Scottish Transmission Licensee and each Scottish User will have nominated to be available, to a timescale agreed in the Bilateral Agreement, a person or persons ("Safety Co-ordinator(s)") to be responsible for the co-ordination of Safety Precautions when work is to be carried out on a System which necessitates the provision of Safety Precautions on HV Apparatus pursuant to OC8B. A Safety Co-ordinator may be responsible for the co-ordination of safety on HV Apparatus at more than one Connection Point (or, in the case of OTSUA, Transmission Interface Point).
- OC8B.4.2.2 Each Safety Co-ordinator shall be authorised by the Relevant Scottish Transmission Licensee or a Scottish User, as the case may be, as competent to carry out the functions set out in OC8B to achieve Safety From The System. Confirmation from the Relevant Scottish Transmission Licensee or a Scottish User, as the case may be, that its Safety Co-ordinator(s) as a group are so authorised is dealt with, for Scottish Users, in CC.5.2 and for Relevant Scottish Transmission Licensees in the STC. Only persons with such authorisation will carry out the provisions of **OC8B**. Each **User** shall, prior to being connected to the National Electricity Transmission System, give notice in writing to the Relevant Scottish Transmission Licensee of its Safety Co-ordinator(s) and will update the written notice yearly and whenever there is a change to the identity of its Safety Co-ordinators or to the Connection Points (or, in the case of OTSUA, Transmission Interface Points). The Relevant Scottish Transmission Licensee will, at the time of a Scottish User being connected to the National Electricity Transmission System give notice in writing to that Scottish User of the identity of its Safety Co-ordinator(s) and will update the written notice whenever there is a change to the Connection Points (or, in the case of OTSUA, Transmission Interface Points) or Safety Co-ordinators.
- OC8B.4.2.3 Contact between **Safety Co-ordinators** will be made via normal operational channels, and accordingly separate telephone numbers for **Safety Co-ordinators** need not be provided.
- OC8B.4.2.4 If work is to be carried out on a **System**, or on equipment of the **Relevant Scottish**Transmission Licensee or a **Scottish User** near to a **System**, as provided in this **OC8B**, which necessitates the provision of **Safety Precautions** on **HV Apparatus** in accordance with the provisions of **OC8B**, the **Requesting Safety Co-ordinator** who requires the **Safety Precautions** to be provided shall contact the relevant **Implementing Safety Co-ordinator** to co-ordinate the establishment of the **Safety Precautions**.
- OC8B.4.3 RISSP
- OC8B.4.3.1 OC8B sets out the procedures for utilising the RISSP, which will be used except where dealing with equipment in proximity to the other's **System** as provided in **OC8B.8**. Sections **OC8B.4** to **OC8B.7** inclusive should be read accordingly.

- OC8B.4.3.2 The Relevant Transmission Licensee will use the format of the RISSP forms set out in Appendix A and Appendix B to OC8B, or any other format which may be agreed between the Relevant Scottish Transmission Licensee and each User. That set out in OC8B Appendix A and designated as "RISSP-R", shall be used when the Relevant Scottish Transmission Licensee is the Requesting Safety Co-ordinator, and that in OC8B Appendix B and designated as "RISSP-I", shall be used when the Relevant Transmission Licensee is the Implementing Safety Co-ordinator. Proformas of RISSP-R and RISSP-I will be provided for use by Relevant Scottish Transmission Licensees staff.
- OC8B.4.3.3 Scottish Users may either adopt the format referred to in OC8B.4.3.2 or any other format which may be agreed between the Relevant Scottish Transmission Licensee and the Scottish User from time to time.
- OC8B.4.3.4 All references to RISSP-R and RISSP-I shall be taken as referring to the corresponding parts of the alternative forms or other tangible written or electronic records used by each **Scottish User** or **Relevant Scottish Transmission Licensee**.
- OC8B.4.3.5 RISSP-R will have an identifying number written or printed on it, comprising a prefix which identifies the location at which it is issued, and a unique (for each **Scottish User** or **Relevant Scottish Transmission Licensee**, as the case may be) serial number which both together uses up to eight characters (including letters and numbers) and the suffix "R".
- OC8B.4.3.6 (a) In accordance with the timing requirements set out in the **Bilateral Agreement** each **Scottish User** shall apply in writing to **Relevant Scottish Transmission Licensee** for **Relevant Scottish Transmission Licensee**'s approval of its proposed prefix.
 - (b) Relevant Scottish Transmission Licensee shall consider the proposed prefix to see if it is the same as (or confusingly similar to) a prefix used by Relevant Scottish Transmission Licensee or another User and shall, as soon as possible (and in any event within ten days), respond in writing to the Scottish User with its approval or disapproval.
 - (c) If **Relevant Scottish Transmission Licensee** disapproves, it shall explain in its response why it has disapproved and will suggest an alternative prefix.
 - (d) If Relevant Scottish Transmission Licensee has disapproved, then the Scottish User shall either notify Relevant Scottish Transmission Licensee in writing of its acceptance of the suggested alternative prefix or it shall apply in writing to Relevant Scottish Transmission Licensee with revised proposals and the above procedure shall apply to that application.

OC8B.5 SAFETY PRECAUTIONS ON HV APPARATUS

- OC8B.5.1 <u>Agreement Of Safety Precautions</u>
- OC8B.5.1.1 The Requesting Safety Co-ordinator who requires Safety Precautions on another System(s) will contact the relevant Implementing Safety Co-ordinator(s) to agree the Location of the Safety Precautions to be established. This agreement will be recorded in the respective Safety Logs.
- OC8B.5.1.2 It is the responsibility of the Implementing Safety Co-ordinator to ensure that adequate Safety Precautions are established and maintained, on his and/or another System connected to his System, to enable Safety From The System to be achieved on the HV Apparatus, specified by the Requesting Safety Co-ordinator which is to be identified in Part 1.1 of the RISSP. Reference to another System in this OC8B.5.1.2 shall not include the Requesting Safety Co-ordinator's System which is dealt with in OC8B.5.1.3.

- OC8B.5.1.3 When the Implementing Safety Co-ordinator is of the reasonable opinion that it is necessary for Safety Precautions on the System of the Requesting Safety Co-ordinator, other than on the HV Apparatus specified by the Requesting Safety Co-ordinator, which is to be identified in Part 1.1 of the RISSP, he shall contact the Requesting Safety Co-ordinator and the details shall be recorded in part 1.1 of the RISSP forms. In these circumstances it is the responsibility of the Requesting Safety Co-ordinator to establish and maintain such Safety Precautions.
- OC8B.5.1.4 The location of the **Safety Precautions** should be indicated on each **Scottish User's** operational diagram and labelled as per the local instructions of each **Scottish User**.

OC8B.5.1.5 In The Event Of Disagreement

In any case where the **Requesting Safety Co-ordinator** and the **Implementing Safety Co-ordinator** are unable to agree the **Location** of the **Isolation** and (if requested) **Earthing**, both shall be at the closest available points on the infeeds to the **HV Apparatus** on which **Safety From The System** is to be achieved as indicated on the **Operation Diagram**.

- OC8B.5.2 <u>Implementation Of Isolation</u>
- OC8B.5.2.1 Following the agreement of the **Safety Precautions** in accordance with OC8B.5.1 the **Implementing Safety Co-ordinator** shall then establish the agreed **Isolation**.
- OC8B.5.2.2 The Implementing Safety Co-ordinator shall confirm to the Requesting Safety Co-ordinator that the agreed Isolation has been established, and identify the Requesting Safety Co-ordinator's HV Apparatus up to the Connection Point (or, in the case of OTSUA, Transmission Interface Point), for which the Isolation has been provided. The confirmation shall specify:
 - (a) for each **Location**, the identity (by means of **HV Apparatus** name, nomenclature and numbering or position, as applicable) of each point of **Isolation**;
 - (b) whether **Isolation** has been achieved by an **Isolating Device** in the isolating position, by an adequate physical separation or as a result of a **No System Connection**;
 - (c) where an **Isolating Device** has been used whether the isolating position is either:
 - (i) maintained by immobilising and Locking the Isolating Device in the isolating position and affixing a Caution Notice to it. Where the Isolating Device has been Locked with a Safety Key, the confirmation shall specify that the Safety Key has been secured in a Key Safe and the Key Safe Key has been given to the authorised site representative of the Requesting Safety Co-ordinator where reasonably practicable and is to be retained in safe custody. Where not reasonably practicable (including where Earthing has been requested in OC8B.5.1), the confirmation shall specify that the Key Safe Key will be retained by the authorised site representative of the Implementing Safety Co-ordinator in safe custody; or
 - (ii) maintained and/or secured by such other method which must be in accordance with the **Safety Rules** of the **Relevant Scottish Transmission Licensee** or that **Scottish User**, as the case may be; and
 - (d) where an adequate physical separation has been used that it will be in accordance with, and maintained by, the method set out in the Safety Rules of the Relevant Scottish Transmission Licensee or that Scottish User, as the case may be, and, if it is a part of that method, that a Caution Notice has been placed at the point of separation;
 - (e) where a No System Connection has been used the physical position of the No System Connection shall be defined and shall not be varied for the duration of the Safety Precaution and the Implementing Safety Co-ordinator's relevant HV Apparatus will not, for the duration of the Safety Precaution be connected to a source of electrical energy or to any other part of the Implementing Safety Co-ordinator's System.

The confirmation of **Isolation** shall be recorded in the respective **Safety Logs**.

- OC8B.5.2.3 Following the confirmation of **Isolation** being established by the **Implementing Safety Co-**ordinator and the necessary establishment of relevant **Isolation** on the **Requesting Safety**Co-ordinators System, the **Requesting Safety Co-**ordinator will then request the implementation of **Earthing** by the **Implementing Safety Co-**ordinator, if agreed in section OC8B.5.1. If the implementation of **Earthing** has been agreed, then the authorised site representative of the **Implementing Safety Co-**ordinator shall retain any **Key Safe Key** in safe custody until any **Safety Key** used for **Earthing** has been secured in the **Key Safe**.
- OC8B.5.3 <u>Implementation Of Earthing</u>
- OC8B.5.3.1 The Implementing Safety Co-ordinator shall then establish the agreed Earthing.
- OC8B.5.3.2 The Implementing Safety Co-ordinator shall confirm to the Requesting Safety Co-ordinator that the agreed Earthing has been established, and identify the Requesting Safety Co-ordinator's HV Apparatus up to the Connection Point (or, in the case of OTSUA, Transmission Interface Point), for which the Earthing has been provided. The confirmation shall specify:
 - (a) for each **Location**, the identity (by means of **HV Apparatus** name, nomenclature and numbering or position, as is applicable) of each point of **Earthing**; and
 - (b) in respect of the **Earthing Device** used, whether it is:
 - (i) immobilised and Locked in the earthing position. Where the Earthing Device has been Locked with a Safety Key, that the Safety Key has been secured in a Key Safe and the Key Safe Key has been given to the authorised site representative of the Requesting Safety Co-ordinator where reasonably practicable and is to be retained in safe custody. Where not reasonably practicable, that the Key Safe Key will be retained by the authorised site representative of the Implementing Safety Co-ordinator in safe custody; or
 - (ii) maintained and/or secured in position by such other method which is in accordance with the **Safety Rules** of the **Relevant Scottish Transmission Licensee** or that **Scottish User**, as the case may be.

The confirmation of **Earthing** shall be recorded in the respective **Safety Logs**.

- OC8B.5.3.3 The Implementing Safety Co-ordinator shall ensure that the established Safety Precautions are maintained until requested to be removed by the relevant Requesting Safety Co-ordinator.
- OC8B.5.3.4 Certain designs of gas insulated switchgear three position isolator and earth switches specifically provide a combined **Isolation** and **Earthing** function within a single mechanism contained within a single integral unit. Where **Safety Precautions** are required across control boundaries and subject to the requirements of OC8B.5.1, it is permissible to earth before **Points of Isolation** have been established provided that all interconnected circuits are fully disconnected from live **HV Apparatus**.
- OC8B.5.4 RISSP Issue Procedure
- OC8B.5.4.1 Where **Safety Precautions** on another **System(s)** are being provided to enable work on the **Requesting Safety Co-ordinator's System**, before any work commences they must be recorded by a **RISSP** being issued. The **RISSP** is applicable to **HV Apparatus** up to the **Connection Point** (or, in the case of **OTSUA**, **Transmission Interface Point**) identified in section 1.1 of the RISSP-R and RISSP-I forms.

- OC8B.5.4.2 Where Safety Precautions are being provided to enable work to be carried out on both sides of the Connection Point (or, in the case of OTSUA, Transmission Interface Point) a RISSP will need to be issued for each side of the Connection Point (or, in the case of OTSUA, Transmission Interface Point) with Relevant Scottish Transmission Licensee and the respective User each enacting the role of Requesting Safety Co-ordinator. This will result in a RISSP-R and a RISSP-I form being completed by each of the Relevant Scottish Transmission Licensee and the Scottish User, with each Requesting Safety Co-ordinator issuing a separate RISSP number.
- OC8B.5.4.3 Once the **Safety Precautions** have been established (in accordance with OC8B.5.2 and OC8B.5.3), the **Implementing Safety Co-ordinator** shall complete parts 1.1 and 1.2 of a RISSP-I form recording the details specified in OC8B.5.1.3, OC8B.5.2.2 and OC8B.5.3.2. Where **Earthing** has not been requested, Part 1.2(b) will be completed with the words "not applicable" or "N/A". He shall then contact the **Requesting Safety Co-ordinator** to pass on these details.
- OC8B.5.4.4 The **Requesting Safety Co-ordinator** shall complete Parts 1.1 and 1.2 of the RISSP-R, making a precise copy of the details received. On completion, the **Requesting Safety Co-ordinator** shall read the entries made back to the sender and check that an accurate copy has been made.
- OC8B.5.4.5 The **Requesting Safety Co-ordinator** shall then issue the number of the **RISSP**, taken from the RISSP-R, to the **Implementing Safety Co-ordinator** who will ensure that the number, including the prefix and suffix (where applicable), is accurately recorded in the designated space on the RISSP-I form.
- OC8B.5.4.6 The **Requesting Safety Co-ordinator** and the **Implementing Safety Co-ordinator** shall complete and sign Part 1.3 of the RISSP-R and RISSP-I respectively and then enter the time and date. When signed no alteration to the **RISSP** is permitted; the **RISSP** may only be cancelled.
- OC8B.5.4.7 The **Requesting Safety Co-ordinator** is then free to authorise work, but not testing, in accordance with the requirements of the relevant internal safety procedures which apply to the **Requesting Safety Co-ordinator's System**. This is likely to involve the issue of safety documents or other relevant internal authorisations. Where testing is to be carried out, the procedure set out below in OC8B.6 shall be implemented.
- OC8B.5.5 RISSP Cancellation Procedure
- OC8B.5.5.1 When the **Requesting Safety Co-ordinator** decides that **Safety Precautions** are no longer required, he will contact the relevant **Implementing Safety Co-ordinator** to effect cancellation of the associated **RISSP**.
- OC8B.5.5.2 The **Requesting Safety Co-ordinator** will inform the relevant **Implementing Safety Co-ordinator** of the **RISSP** identifying number, including the prefix and suffix (where applicable), and agree it is the **RISSP** to be cancelled.
- OC8B.5.5.3 The **Requesting Safety Co-ordinator** and the relevant **Implementing Safety Co-ordinator** shall then respectively complete Part 2.1 of their respective RISSP-R and RISSP-I forms and shall then exchange details. The details being exchanged shall include their respective names and time and date. On completion of the exchange of details the respective **RISSP** is cancelled. The removal of **Safety Precautions** is as set out in OC8B.5.5.4 and OC8B.5.5.5.
- OC8B.5.5.4 Neither **Safety Co-ordinator** shall instruct the removal of any **Isolation** forming part of the **Safety Precautions** as part of the returning of the **HV Apparatus** to service until it is confirmed to each by each other that every earth on each side of the **Connection Point** (or, in the case of **OTSUA**, **Transmission Interface Point**), within the points of isolation identified on the **RISSP**, has been removed or disconnected by the provision of additional **Points of Isolation**.

OC8B.5.5.5 Subject to the provisions in OC8B.5.5.4, the Implementing Safety Co-ordinator is then free to arrange the removal of the Safety Precautions, the procedure to achieve that being entirely an internal matter for the party the Implementing Safety Co-ordinator is representing. Where a Key Safe Key has been given to the authorised site representative of the Requesting Safety Co-ordinator, the Key Safe Key must be returned to the authorised site representative of the Implementing Safety Co-ordinator. The only situation in which any Safety Precautions may be removed without first cancelling the RISSP in accordance with OC8B.5.5 or OC8B.5.6 is when Earthing is removed in the situation envisaged in OC8B.6.2(b).

OC8B.5.6 RISSP Change Control

Nothing in this OC8B prevents Relevant Scottish Transmission Licensee and Scottish Users agreeing to a simultaneous cancellation and issue of a new RISSP, if both agree. It should be noted, however, that the effect of that under the relevant Safety Rules is not a matter with which the Grid Code deals.

OC8B.6 TESTING

OC8B.6.1 The carrying out of the test may affect **Safety Precautions** on **RISSPs** or work being carried out which does not require a **RISSP**. Testing can, for example, include the application of an independent test voltage. Accordingly, where the **Requesting Safety Co-ordinator** wishes to authorise the carrying out of such a test to which the procedures in OC8B.6 apply he may not do so and the test will not take place unless and until the steps in (a)-(c) below have been followed and confirmation of completion has been recorded in the respective **Safety Logs**:

- (a) confirmation must be obtained from the Implementing Safety Co-ordinator that:
 - (i) no person is working on, or testing, or has been authorised to work on, or test, any part of its System or another System(s) (other than the System of the Requesting Safety Co-ordinator) within the points of Isolation identified on the RISSP form relating to the test which is proposed to be undertaken, and
 - (ii) no person will be so authorised until the proposed test has been completed (or cancelled) and the **Requesting Safety Co-ordinator** has notified the **Implementing Safety Co-ordinator** of its completion (or cancellation);
- (b) any other current RISSPs which relate to the parts of the System in which the testing is to take place must have been cancelled in accordance with procedures set out in OC8B.5.5;
- (c) the Implementing Safety Co-ordinator must agree with the Requesting Safety Co-ordinator to permit the testing on that part of the System between the points of Isolation identified in the RISSP associated with the test and the points of Isolation on the Requesting Safety Co-ordinator's System.
- OC8B.6.2 (a) The **Requesting Safety Co-ordinator** will inform the **Implementing Safety Co-ordinator** as soon as the test has been completed or cancelled and the confirmation shall be recorded in the respective **Safety Logs**.
 - (b) When the test gives rise to the removal of **Earthing** which it is not intended to re-apply, the relevant **RISSP** associated with the test shall be cancelled at the completion or cancellation of the test in accordance with the procedure set out in either OC8B.5.5 or OC8B.5.6. Where the **Earthing** is re-applied following the completion or cancellation of the test, there is no requirement to cancel the relevant **RISSP** associated with the test pursuant to this OC8B.6.2.

OC8B.7 <u>EMERGENCY SITUATIONS</u>

- OC8B.7.1 There may be circumstances where **Safety Precautions** need to be established in relation to an unintended electrical connection or situations where there is an unintended risk of electrical connection between the **National Electricity Transmission System** and a **Scottish User's System**, for example resulting from an incident where one line becomes attached or unacceptably close to another.
- OC8B.7.2 In those circumstances, if both the **Relevant Scottish Transmission Licensee** the **Scottish User** agree, the relevant provisions of OC8B.5 will apply as if the electrical connections or potential connections were, solely for the purposes of this OC8B, a **Connection Point** (or, in the case of **OTSUA**, **Transmission Interface Point**).

- OC8B.7.3 (a) The relevant Safety Co-ordinator shall be that for the electrically closest existing Connection Point (or, in the case of OTSUA, Transmission Interface Point) to that Scottish User's System or such other local Connection Point (or, in the case of OTSUA, Transmission Interface Point) as may be agreed between the Relevant Scottish Transmission Licensee and the Scottish User, with discussions taking place between the relevant local Safety Co-ordinators. The Connection Point (or, in the case of OTSUA, Transmission Interface Point) to be used shall be known in this OC8B.7.3 as the "relevant Connection Point" (or, in the case of OTSUA, relevant "Transmission Interface Point").
 - (b) The **Safety Rules** shall be those which apply to the relevant **Connection Point** (or, in the case of **OTSUA**, **Transmission Interface Point**).
 - (c) The prefix for the RISSP (where applicable) will be that which applies for the relevant Connection Point (or, in the case of OTSUA, Transmission Interface Point).

OC8B.8 SAFETY PRECAUTIONS RELATING TO WORKING ON EQUIPMENT NEAR TO THE HV SYSTEM

OC8B.8 applies to the situation where work is to be carried out at a **Scottish User's Site** or a **Transmission Site** (as the case may be) on equipment of the **Scottish User** or a **Relevant Scottish Transmission Licensee** as the case may be, where the work or equipment is near to **HV Apparatus** on the **Implementing Safety Co-ordinator's System**. It does not apply to other situations to which **OC8B** applies. In this part of **OC8B**, a **Permit for Work for proximity work** is to be used, rather then the usual **RISSP** procedure, given the nature and effect of the work, all as further provided in the OC8B.8.

OC8B.8.1 <u>Agreement Of Safety Precautions</u>

OC8B.8.1.1 The Requesting Safety Co-ordinator who requires Safety Precautions on another System(s) when work is to be carried out at a Scottish User's Site or a Transmission Site (as the case may be) on equipment of the Scottish User or a Relevant Scottish Transmission Licensee, as the case may be, where the work or equipment is near to HV Apparatus on the Implementing Safety Co-ordinator's System will contact the relevant Implementing Safety Co-ordinator(s) to agree the Location of the Safety Precautions to be established, having as part of this process informed the Implementing Safety Co-ordinator of the equipment and the work to be undertaken. The respective Safety Co-ordinators will ensure that they discuss the request with their authorised site representative and that the respective authorised site representatives discuss the request at the Connection Site (or, in the case of OTSUA, Transmission Interface Site). This agreement will be recorded in the respective Safety Logs.

OC8B.8.1.2 It is the responsibility of the Implementing Safety Co-ordinator, working with his authorised site representative as appropriate, to ensure that adequate Safety Precautions are established and maintained, on his and/or another System connected to his System, to enable Safety From The System to be achieved for work to be carried out at a Scottish User's Site or a Transmission Site (as the case may be) on equipment and in relation to work which is to be identified in the relevant part of the Permit for Work for proximity work where the work or equipment is near to HV Apparatus of the Implementing Safety Coordinator's System specified by the Requesting Safety Co-ordinator. Reference to another System in this OC8B.8.1.2 shall not include the Requesting Safety Co-ordinator's System.

OC8B.8.1.3 In The Event Of Disagreement

In any case where the **Requesting Safety Co-ordinator** and the **Implementing Safety Co-ordinator** are unable to agree the **Location** of the **Isolation** and (if requested) **Earthing**, both shall be at the closest available points on the infeeds to the **HV Apparatus** near to which the work is to be carried out as indicated on the **Operation Diagram**.

- OC8B.8.2 <u>Implementation Of Isolation And Earthing</u>
- OC8B.8.2.1 Following the agreement of the **Safety Precautions** in accordance with OC8B.8.1 the **Implementing Safety Co-ordinator** shall then establish the agreed **Isolation** and (if required) **Earthing**.
- OC8B.8.2.2 The **Implementing Safety Co-ordinator** shall confirm to the **Requesting Safety Co-ordinator** that the agreed **Isolation** and (if required) **Earthing** has been established.
- OC8B.8.2.3 The **Implementing Safety Co-ordinator** shall ensure that the established **Safety Precautions** are maintained until requested to be removed by the relevant **Requesting Safety Co-ordinator**.
- OC8B.8.3 Permit For Work For Proximity Work Issue Procedure
- OC8B.8.3.1 Where **Safety Precautions** on another **System(s)** are being provided to enable work to be carried out at a **Scottish User's Site** or **Transmission Site** (as the case may be) on equipment where the work or equipment is in proximity to **HV Apparatus** of the **Implementing Safety Co-ordinator**, before any work commences they must be recorded by a **Permit for Work for proximity work** being issued. The **Permit for Work for proximity work** shall identify the **Implementing Safety Co-ordinator's HV Apparatus** in proximity to the required work
- OC8B.8.3.2 Once the Safety Precautions have been established (in accordance with OC8B.8.2), the Implementing Safety Co-ordinator shall agree to the issue of the Permit for Work for proximity work with the appropriately authorised site representative of the Requesting Safety Co-ordinator's Site. The Implementing Safety Co-ordinator will inform the Requesting Safety Co-ordinator of the Permit for Work for proximity work identifying number.
- OC8B.8.3.3 The appropriately authorised site representative of the Implementing Safety Co-ordinator shall then issue the Permit for Work for proximity work to the appropriately authorised site representative of the Requesting Safety Co-ordinator. The Permit for Work for proximity work will in the section dealing with the work to be carried out, be completed to identify that the work is near the Implementing Safety Co-ordinator's HV Apparatus. No further details of the Requesting Safety Co-ordinator's work will be recorded, as that is a matter for the Requesting Safety Co-ordinator in relation to his work.
- OC8B.8.3.4 The **Requesting Safety Co-ordinator** is then free to authorise work in accordance with the requirements of the relevant internal safety procedures which apply to the **Requesting Safety Co-ordinator's Site**. This is likely to involve the issue of safety documents or other relevant internal authorisations.
- OC8B.8.4 Permit For Work For Proximity Work Cancellation Procedure
- OC8B.8.4.1 When the **Requesting Safety Co-ordinator** decides that **Safety Precautions** are no longer required, he will contact the relevant **Implementing Safety Co-ordinator** to effect cancellation of the associated **Permit for Work for proximity work**.
- OC8B.8.4.2 The Requesting Safety Co-ordinator will inform the relevant Implementing Safety Co-ordinator of the Permit for Work for proximity work identifying number, and agree that the Permit for Work for proximity work can be cancelled. The cancellation is then effected by the appropriately authorised site representative of the Requesting Safety Co-ordinator returning the Permit for Work for proximity work to the appropriately authorised site representative of the Implementing Safety Co-ordinator.
- OC8B.8.4.3 The **Implementing Safety Co-ordinator** is then free to arrange the removal of the **Safety Precautions**, the procedure to achieve that being entirely an internal matter for the party the **Implementing Safety Co-ordinator** is representing.

OC8B.9 LOSS OF INTEGRITY OF SAFETY PRECAUTIONS

OC8B.9.1 In any instance when any **Safety Precautions** may be ineffective for any reason the relevant **Safety Co-ordinator** shall inform the other **Safety Co-ordinator(s)** without delay of that being the case and, if requested, of the reasons why.

OC8B.10 SAFETY LOG

OC8B.10.1 Relevant Scottish Transmission Licensees and Scottish Users shall maintain Safety Logs which shall be a chronological record of all messages relating to safety co-ordination under OC8 sent and received by the Safety Co-ordinator(s). The Safety Logs must be retained for a period of not less than six years.

APPENDIX A - RISSP-R

RECORD OF INTER-SYSTEM SAFETY PRECAUTIONS (RISSP-R)

(Requesting Safety Co-ordinator's Record)

RISSP NUMBER	
CIRCUIT IDENTIFICATION	
Safety Precautions have been established by the Implementing Safety Co-ordinator achieve Safety From The System on the following HV Apparatus:	to

1.2 <u>SAFETY PRECAUTIONS ESTABLISHED</u>

(a) ISOLATION

Part 1

1.1

State the Locations(s) at which Isolation has been established on the Implementing Safety Co-ordinator's System. For each Location, identify each point of Isolation. For each point of Isolation state, the means by which the Isolation has been achieved, and whether, immobilised and Locked, Caution Notice affixed, other Safety Precautions applied, as appropriate.

	(b) <u>EARTHING</u>
	State the Locations(s) at which Earthing has been established on the Implementing Safety Co-ordinator's System. For each Location, identify each point of Earthing. For each point of Earthing state, the means by which the Earthing has been achieved, and whether, immobilised and Locked, other Safety Precautions applied, as appropriate.
1.3	<u>ISSUE</u>
	I have received confirmation from (name of Implementing Safety Co-ordinator) at (Location) that the Safety Precautions identified in paragraph 1.2 have been established and that instructions will not be issued at his Location for their removal until this RISSP is cancelled.
	Signed (Requesting Safety Co-ordinator)
	at (time) on (date)
PART 2	
2.1	CANCELLATION
	I have confirmed to (name of the Implementing Safety Co-ordinator) at (Location) that the Safety Precautions set

out in paragraph 1.2 are no longer required and accordingly the RISSP is cancelled.

at (time) on (date).....

Signed (Requesting Safety Co-ordinator)

APPENDIX B - RISSP-I

RECORD OF INTER-SYSTEM SAFETY PRECAUTIONS (RISSP-I)

(Implementing Safety Co-ordinator's Record)

CIRCUIT IDENTIFICATION
Safety Precautions have been established by the Implementing Safety Co-ordinator to achieve Safety From The System on the following HV Apparatus:
SAFETY PRECAUTIONS ESTABLISHED
(a) <u>ISOLATION</u>
State the Location(s) at which isolation has been established on the Implementing Safety Co-ordinator's System. For each Location, identify each point of Isolation. For each point of Isolation state, the means by which the Isolation has been achieved, and whether, immobilised and Locked, Caution Notice affixed, other Safety Precautions applied, as appropriate.

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	(b) <u>EARTHING</u>
	State the Location(s) at which Earthing has been established on the Implementing Safety Co-ordinator's System. For each Location, identify each point of Earthing. For each point of Earthing state, the means by which the Earthing has been achieved, and whether, immobilised and Locked, other Safety Precautions applied, as appropriate.
1.3	<u>ISSUE</u>
	I confirmed to (name of Requesting Safety Co-ordinator) at (Location) that the Safety Precautions identified in paragraph
	1.2 have been established and that instructions will not be issued at my Location for their removal until this RISSP is cancelled.
	Signed (Implementing Safety Co-ordinator)
	at (time) on (date)
PART 2	
2.1	CANCELLATION
	I have received confirmation from (name of the Requesting Safety Co-ordinator) at (Location) that the Safety Precautions set out in paragraph 1.2 are no longer required and accordingly the

(Note: This form to be of a different colour from RISSP-R.)

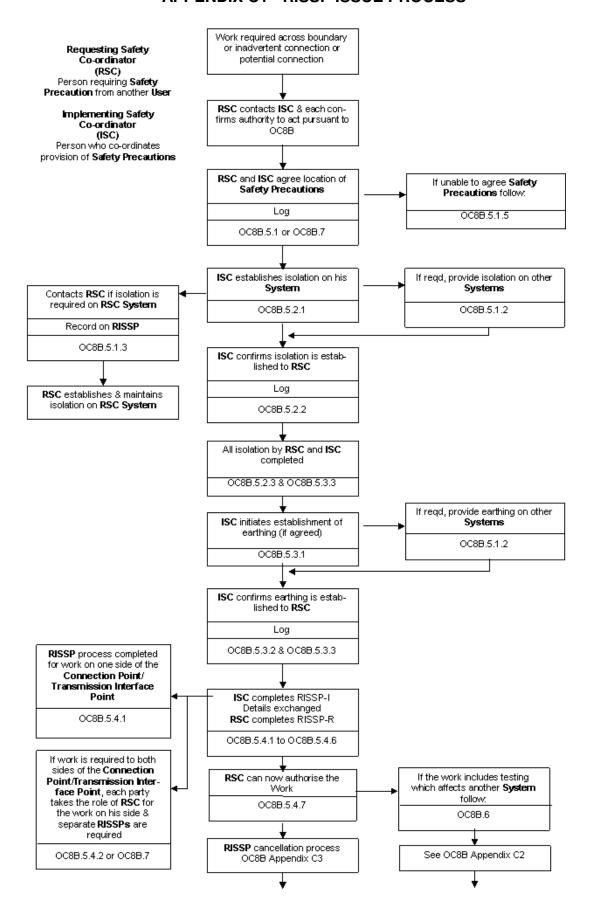
RISSP is cancelled.

Signed (Implementing Safety Co-ordinator)

at (time) on (date)

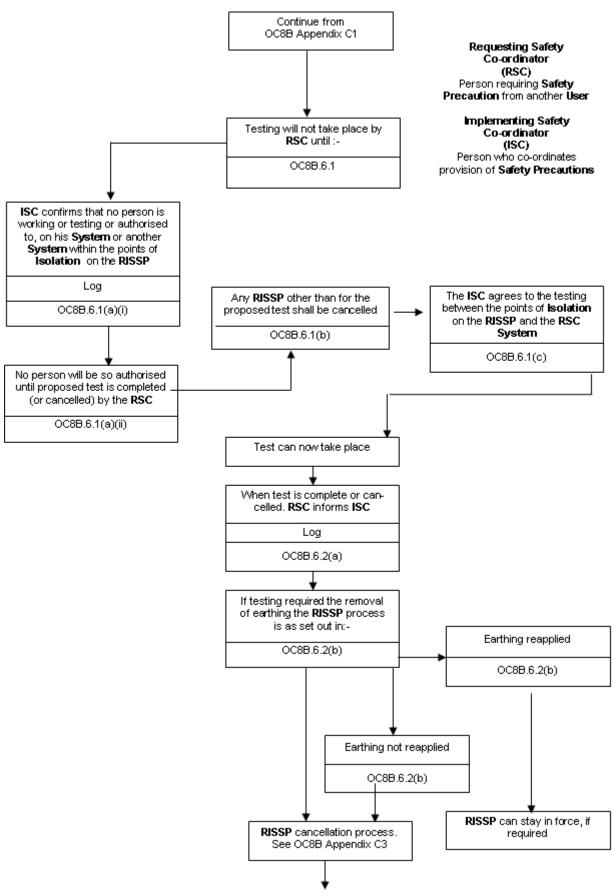
APPENDIX C - FLOWCHARTS

APPENDIX C1 - RISSP ISSUE PROCESS

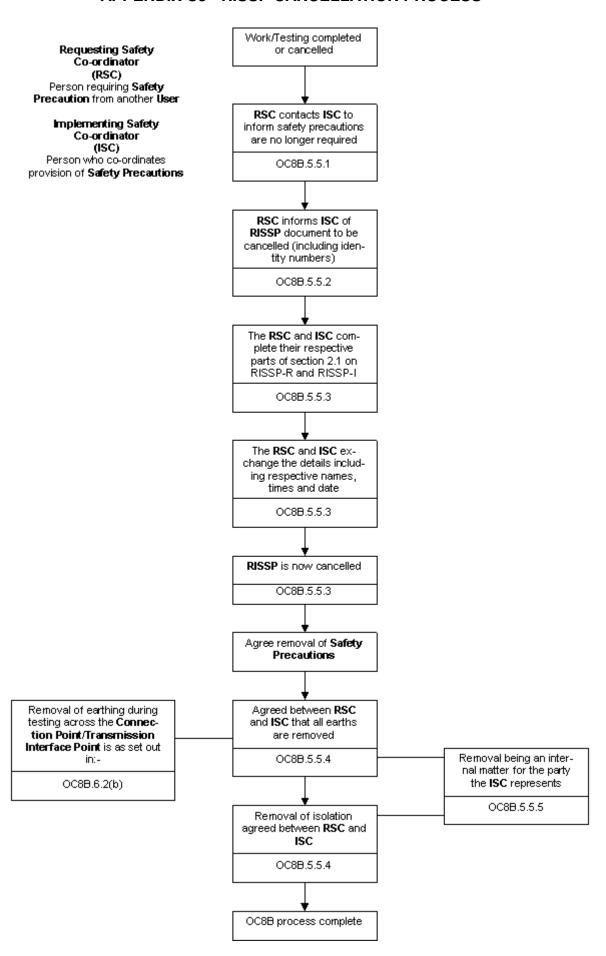


APPENDIX C2 - TESTING PROCESS

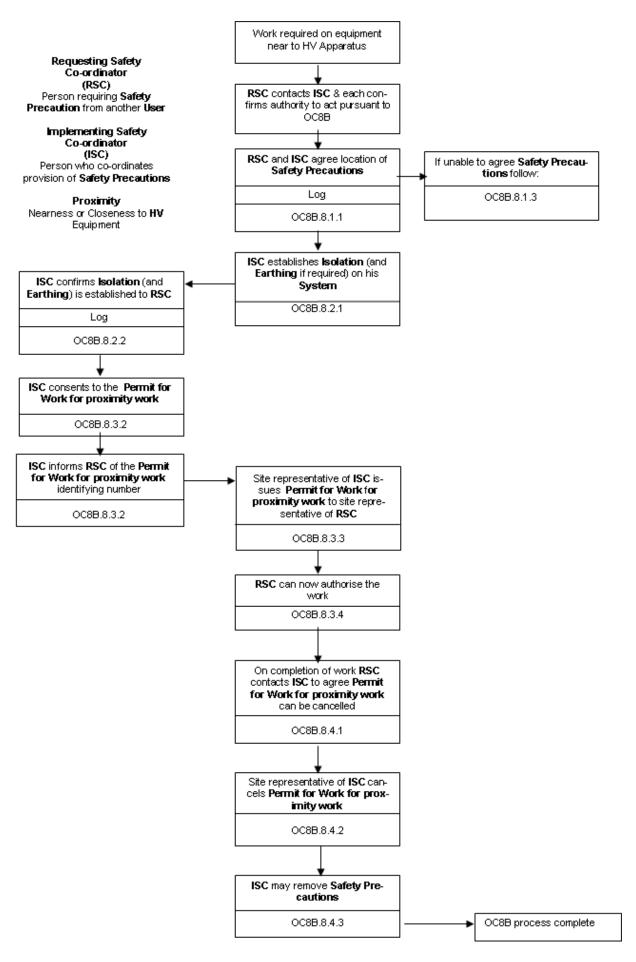
Where testing affects another Safety Co-ordinator's System



APPENDIX C3 - RISSP CANCELLATION PROCESS



APPENDIX C4 - PROCESS FOR WORKING NEAR TO SYSTEM EQUIPMENT



APPENDIX D - NOT USED

Not Used

APPENDIX E - FORM OF PERMIT TO WORK

Scottish & Southern Energy plc

		PERMIT-TO-WORK	No	
1.	ISSUE			
То				
	owing High Voltage Apparatu mit-to-Work to proceed:	s has been made safe in accordance wit	n the Operational Safety Rules for the work d	etailed on
		TREAT ALL OTHER APPARA	ATUS AS LIVE	
Circuit N	Main Earths are applied at:			
		Safety Rules 3.2.1(b), 4.6.2(c) and 5.5.3)		
The follo	owing work is to be carried or	ut:		
Circuit	Identification Issued: Colour	No. of wristlets	No. of step bolts	
2.	RECEIPT			
		t the work on the Apparatus detailed on t by me, or by the persons under my char	his Permit-to-Work, applying additional earth ge, to work on any other Apparatus.	s as
		Signature: Time: Sked as above (Initials):		
3.	CLEARANCE			
All perse Permit-t		een withdrawn and warned that it is no lo	nger safe to work on the Apparatus detailed o	on this
All gear	, tools and additional earths I	nave/have not* been removed.	orks is/is not* complete.	
All circu	it identification equipment iss	sued as above has been returned		
Name: (print):	Signature: Time: * Delete where not appli		
4.	CANCELLATION			
This Pe	rmit-to-Work is cancelled.			
	print): Revision 8	Signature: Time: OC8B 26 of 28		10 June 20

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Scottish Power

PERMIT FOR WORK KEY SAFE No. (ii) PLANT/APPARATUS IDENTIFICATION (iii) WORK TO BE DONE PRECAUTIONS TAKEN TO ACHIEVE SAFETY FROM THE SYSTEM: State points at which Plant/Apparatus has been Isolated and specify position(s) of Earthing Devices applied. State actions taken to avoid Danger by draining, venting, purging and containment or dissipation of stored energy. Caution Notices have been affixed to all points of isolation (ii) FURTHER PRECAUTIONS TO BE TAKEN DURING THE COURSE OF WORK TO AVOID SYSTEM DERIVED HAZARDS I have confirmed with the **Control Person(s)*** that precautions in Section 2(i) have been carried out and that the Control Person(s) will maintain these until this Permit for Work is cancelled. I certify that the precautions in Section 2(i) together with the precautions in Section 2(ii) are adequate to provide Safety from the System in respect of the work in Section 1. This Permit for Work must only be transferred under the Personal Supervision of a Senior Authorised

Signed being a Senior Authorised Person. Time: Date: Date:

Person*

			TRANS	FER RECORD		
PART Person		PART 2	+Person r	PAR	T 3 Senior	Time
surrendering Document	Date	Senior Authorised Person receiving	†Person receiving reissued Document Signature Name (Block		Authorised Person	Date
		suspended Document *		Letters)	reissuing document	
		iving re-issued Docume	ent in accordan	ce with conditions de	etailed in Section 4.	
Signature of P	erson rece	iving ic issued bocain				
5. CLEARAN on, the Pla	CE: I certii	fy that all persons work tus in Section 1. All ge	ars, tools, Dra			
5. CLEARAN on, the Pla	CE: I certii	fy that all persons work	ars, tools, Dra			
5. CLEARAN on, the Pla	CE: I certii	fy that all persons work tus in Section 1. All ge	ars, tools, Dra			
5. CLEARAN on, the Pla access doc	CE: I certii Int/Appara ors have be	fy that all persons work tus in Section 1. All ge	ars, tools, Dra i	in Earths and loose	material have been re	
5. CLEARAN on, the Pla access doc	CE: I certii Int/Appara ors have be	fy that all persons work tus in Section 1. All ge een replaced, except for	ars, tools, Dra i	in Earths and loose	material have been re	emoved an
5. CLEARAN on, the Pla access doc	CE: I certii	fy that all persons work tus in Section 1. All ge een replaced, except for	ars, tools, Dra	tent Person respons	material have been re	emoved an
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Signed CANCELL Cancer of the Plata access documents Signed Cancer of the Plata access documents Signed Cancer of the Plata access documents Cancer of the Plata ac	CE: I certii int/Appara ors have be ATION: I c	fy that all persons work tus in Section 1. All ge een replaced, except for the cle ertify that all items issue	ars, tools, Drains are the Compering the Compering this Permediated of the cance	tent Person response on 3 have been acco	sible for Time Date ounted for and the Co	emoved an

< END OF OPERATING CODE NO. 8 APPENDIX 2 >