



CONSULTATION DOCUMENT
CUSC Amendment Proposal CAP122
Change to the definition of Intertrip Payment for
Power Park Modules

*The purpose of this document is to
consult on Amendment Proposal CAP122
with CUSC Parties and other interested
Industry members*

Amendment Ref	CAP122
Issue	1.0
Date of Issue	6th April 2006
Prepared by	National Grid

I DOCUMENT CONTROL**a National Grid Document Control**

Version	Date	Author	Change Reference
0.1	04/04/2006	National Grid	Initial Draft for internal comment
1.0	06/04/2006	National Grid	Formal version for release

b Document Location

National Grid website:

www.nationalgrid.com/uk/electricity/codes/

c Distribution

Name	Organisation
CUSC Parties	Various
Panel Members	Various
Interested Parties	Various
Core Industry Document Owners	Various
National Grid Industry Information Website	-

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1.0 SUMMARY AND VIEWS

Executive Summary

- 1.1 CAP122 - Change to the definition of Intertrip Payment for Power Park Modules was proposed by National Grid and submitted to the Amendments Panel on 31st March 2006. CAP122 proposes to amend CUSC 4.2A.4 (c) and the associated terms within schedule 3 and 4 of Section 4 and the definitions to limit the payment to one per Power Park Module per trip, instead of one payment per Generating Unit per trip.
- 1.2 CAP076 introduced the System to Generator Operational Intertrip scheme into the CUSC. The scheme has 4 categories and Categories 2 and 4 carry a payment per Generating Unit when the Intertrip is fired. The Intertrip Payment aims to cover the costs of firing the Intertrip.
- 1.3 Power Park Modules were not assessed during the development of CAP076, as the definition was concurrently being developed by a Grid Code Working Group. Consequently the Intertrip Payment per Generating Unit for a Power Park Module defeats the underlying philosophy behind CAP076 and the Applicable Objectives i.e. an administered scheme with known and proportional costs.
- 1.4 Therefore CAP122 aims to remove the risk to the Industry of disproportionate costs where a Power Park Module is tripped off the GB Transmission System without changing the operation of the scheme or payments to other generation types.

National Grid's View

- 1.5 National Grid, as the proposer of CAP122 is supportive of the Amendment Proposal, believing that it would better facilitate achievement of the Applicable CUSC Objective (b).

Amendment Panels View

- 1.6 The Amendments Panel agreed that CAP122 should proceed to wider consultation by National Grid, for a period of 4 weeks.

1.0 PURPOSE AND INTRODUCTION

- 1.1 This is a consultation document issued by National Grid under the rules and procedures specified in the Connection and Use of System Code (CUSC) as designated by the Secretary of State.
- 1.2 Further to the submission of Amendment Proposal CAP122, this document seeks views from industry members relating to the Amendment Proposal.
- 2.3 CAP122 was proposed by National Grid and submitted to the CUSC Amendments Panel for consideration at their meeting on 31st March 2006. The Amendments Panel determined that CAP122 was appropriate to proceed to wider industry consultation by National Grid.
- 2.4 This consultation document outlines the nature of the CUSC changes that are proposed. Representations received in response to this consultation

document will be included in National Grid's Amendment Report that will be furnished to the Authority for their decision.

- 2.5 This consultation document has been prepared in accordance with the terms of the CUSC. An electronic copy can be found on the National Grid website, at www.nationalgrid.com/uk/Electricity/Codes/ and the Amendment Proposal form. This document invites views upon CAP122 and the **closing date** is **5th May 2006 for responses** including any Consultation Alternatives.
- 2.6 CUSC Parties are reminded that any Consultation Alternatives must be submitted by the above closing date and must be in writing and contain sufficient detail in accordance with the requirements within CUSC 8.15.2

3.0 PROPOSED AMENDMENT

- 3.1 CAP122 proposes to amend CUSC 4.2A.4 (c) and creates a new definition of Intertrip Contracted Unit to confine Intertrip Payments to one per Power Park Module per trip, instead of one per Generating Unit per trip.
- 3.2 CAP076 introduced the System to Generator Operational Intertrip into the CUSC with 4 Categories of Intertrip. Categories 2 and 4 both carry a payment rate of £400,000 per Generating Unit per trip when an Intertrip is fired
- 3.3 The Intertrip Payment fee aims to cover a number of costs, such as wear-and-tear arising from the trip, start-up fuel costs to bring to generator back onto the system and the impact the trip has upon Equivalent Operating Hours. The payment fee assessment was based upon conventional synchronous thermal generators and did not examine the case of Power Park Modules.
- 3.4 The increasing number of renewable generators that may require an operational Intertrip as a condition of connection creates a cost exposure for the industry (even though the probability of such a trip is extremely low) as the Intertrip Payment is paid on a per Generating Unit basis.
- 3.5 A Power Park Module is a collection of non-synchronous Generating Units (for example a wind farm). Therefore, if a wind-farm with either a Category 2 or 4 Intertrip was fired, it could potentially be read from the existing CUSC text that it should be paid on a per Generating Unit basis, not on a Power Park Module basis.
- 3.6 This amendment therefore removes the risk of disproportionate costs which would be created if a Power Park Module were to be tripped off the transmission system and ensuring the underlying philosophy behind CAP076 and the Applicable CUSC Objectives is achieved.

4.0 ASSESSMENT AGAINST APPLICABLE CUSC OBJECTIVES

Proposed Amendment

- 4.1 CAP122 would better facilitate CUSC Objective;
- (b) *Facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the sale, distribution and purchase of electricity*

- 4.2 By ensuring the payment costs associated with the firing of a Category 2 or 4 Operational Intertrip at Power Park Module is proportionate.

5.0 PROPOSED IMPLEMENTATION

- 5.1 National Grid proposes CAP122 should be Implemented 10 business days after an Authority decision. In accordance with 8.19.3(b) views are invited on this proposed implementation date.

6.0 IMPACT ON THE CUSC

- 6.1 CAP122 requires amendments to CUSC 4.2A.4(c), Schedule 3 and 4 of Section 4 and Section 11 Definitions. The text required to give effect to the Proposal is contained in Annex 1 of this document.

7.0 IMPACT ON INDUSTRY DOCUMENTS

- 7.1 CAP122 has no impact upon Core Industry Documents or Industry Computer Systems/Processes as it is a straightforward amendment to ensure the benefits of CAP076 are fully realised.

8.0 INITIAL VIEW OF THE AMENDMENTS PANEL

- 8.1 The Amendments Panel agreed that CAP122 should proceed to wider consultation by National Grid, for a period of 4 weeks subject to a minor change to the proposed legal text, which inserts the word "Intertrip" before "Contracted Unit" to ensure there is no confusion with the term BMU Contracted Unit used elsewhere in the CUSC.

- 8.2 One Panel Member raised concerns regarding the definition of Intertrip Contracted Unit and believed the link to the Bilateral Agreement did not form part of the System to Generator Operational Intertrip Scheme. Views are specifically invited on this issue.

9.0 INITIAL VIEW OF NATIONAL GRID

- 9.1 National Grid believes CAP122 would ensure Intertrip Payments for firing a trip at a Power Park Module is proportionate and is consistent with the underlying philosophy behind CAP076.
- 9.2 National Grid believes for the reasons stated above this would better achieve CUSC Applicable Objective (b).
- 9.3 In light of the Panel Member's concerns, National Grid believes the linkage to the Bilateral Agreement is required as it provides greater clarity within the CUSC for all Generators.

10.0 VIEWS INVITED

- 10.1 National Grid is seeking the views of interested parties in relation to the issues raised by Amendment Proposal CAP122 and issues arising from the proposed timescale for implementation.
- 10.2 Please send your responses to this consultation to National Grid by no later than close of business on **5th May 2006.**
- 10.3 Please address all comments to the following e-mail address:

Beverley.viney@uk.ngrid.com

Or alternatively, comments may be addressed to:

Beverley Viney
Amendments Panel Secretary
Electricity Codes
National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

ANNEX 1 - PROPOSED LEGAL TEXT TO MODIFY THE CUSC

The proposed Legal text to modify the CUSC is detailed below by inserting the coloured underlined text and deleting the text shown stuck through.

Change to CUSC 4.2A.4(c):

4.2A.4(c) subject always to Paragraph 4.2A.5, in respect of each **Category 2 Intertripping Scheme** and **Category 4 Intertripping Scheme**, where the **User's Circuit Breaker(s)** are tripped upon receipt of a signal from the **System to Generator Operational Intertripping Scheme**, **The Company** shall pay to the **User** an amount ("the **Intertrip Payment**") being an amount (£/~~Generating **Intertrip Contracted** Unit/trip~~) specified in Schedule 4 to this Section 4.

Section 4 Schedule 3:

**SCHEDULE 3
SYSTEM TO GENERATOR OPERATIONAL INTERTRIPPING - FACSIMILE
FORMS
Part I**

Instruction to arm and disarm System to Generator Operational Intertripping Scheme

From: []

To: []

Time and date instruction issued: []

Category of Intertrip	
Connection Site	
Time and date of arming	
Restricted MW Export Level (MW) post trip	
Special instructions (if any)	
Reason(s) for arming	
Relevant fault(s)	
Generating Unit(s)/BM Unit(s)/ <u>Intertrip Contracted Unit(s)</u> to be armed (delete as appropriate)	
Anticipated duration of arming	
Category of Intertrip	
Connection Site	
Time and date of arming	

Section 4 Schedule 4**SCHEDULE 4
SYSTEM TO GENERATOR OPERATIONAL INTERTRIPPING - PAYMENT RATES**

	Category 1	Category 2	Category 3	Category 4
Capability Payment (£/Settlement Period)	N/A	£ 1.72	N/A	£ 1.72
Intertrip Payment (£/ Generating Intertrip Contracted Unit/Trip)	N/A	£ 400,000	N/A	£ 400,000

All rates in this Schedule 4 are specified at April 2005 base and shall be subject to indexation in accordance with Paragraph 4.5 with effect from 1st April 2006.

END OF SECTION 4

Section 11 – Definitions

New definitions

Intertrip Contracted Unit

(i) in the case of a **Power Park Module**, the collection of **Non-Synchronous Generating Units** which are registered as a **Power Park Module** under the **Grid Code**; and

(ii) all other cases, a **Generating Unit**.

unless, in either case, the **Bilateral Agreement** specifies otherwise.

Non-Synchronous Generating Unit

as defined in the **Grid Code**.

Power Park Module

as defined in the **Grid Code**.

ANNEX 2 – AMENDMENT PROPOSAL FORM

CUSC Amendment Proposal Form	CAP:122		
Title of Amendment Proposal: Change to the definition of Intertrip Payment for Power Park modules.			
Description of the Proposed Amendment (<i>mandatory by proposer</i>): It is proposed to change the definition of Intertrip Payments within CUSC 4.2A.4(c) and associated terms, to one payment per Power Park Module instead of one payment per Generating Unit. In our view such a change is consistent with the underlying philosophy behind CAP076 and the applicable CUSC objectives and will remove the risk to the Industry of disproportionate costs were a Power Park Module to be tripped off the transmission system. It is not the intention of this proposal to change the amount payable per trip,(i.e. £400,000), except in the specific context of Power Park Modules.			
Description of Issue or Defect that Proposed Amendment seeks to Address (<i>mandatory by proposer</i>): CAP076 introduced four new categories of System to Generator Operational Intertrip into the CUSC. Categories 2 and 4 both carry a payment rate of £400,000 per Generating Unit per trip when the Intertrip is fired. The Intertrip Payment aims to cover a number of costs, such as wear-and-tear arising from the trip and start up fuel costs to bring the generator back onto the system. In addition, part of the Intertrip Payment fee was derived from an assessment of the impact on conventional synchronous thermal generators. However, the increasing numbers of renewable generators that may require an Operational intertrip as a condition of connection creates a cost exposure for Intertrip Payments to the industry, which was not the original intention behind CAP076. The Intertrip Payment is paid on a per Generating Unit basis. A Power Park Module is a collection of non-synchronous Generating Units (for example a wind farm). Therefore, if a wind-farm with either a Category 2 or 4 Intertrip was fired, it could potentially be read from the existing CUSC text that it should be paid on a per Generating Unit basis, not on a Power Park Module basis. This was not the intention behind CAP076 and would expose the Industry to substantial costs, even though the probability of such a trip is extremely low.			
Impact on the CUSC (<i>this should be given where possible</i>): CUSC Section 4 – Balancing Services and Schedule 3 and 4 CUSC Section 11 – Definitions The proposed Legal text to modify the CUSC is detailed in the Annex 1 by inserting the coloured underlined text and deleting the text shown stuck through.			
Impact on Core Industry Documentation (<i>this should be given where possible</i>): None anticipated			
Impact on Computer Systems and Processes used by CUSC Parties (<i>this should be given where possible</i>): N/A			
Details of any Related Modifications to Other Industry Codes (<i>where known</i>): N/A			
Justification for Proposed Amendment with Reference to Applicable CUSC Objectives** (<i>mandatory by proposer</i>): National Grid believes that changing the payment definition to limit the payment for Category 2 and 4 Intertrips for Power Park Modules would better achieve the applicable CUSC objective: <i>Facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the sale, distribution and purchase of electricity</i> It would do this by ensuring that in the circumstances in which an Operational Intertrip was applied to a Power Park Module, the potential cost associated with the firing of that Intertrip would be proportionate.			
<table border="1"> <tr> <td data-bbox="181 1939 695 2009"> Details of Proposer: Organisation's Name: </td> <td data-bbox="695 1939 1417 2009"> National Grid </td> </tr> </table>		Details of Proposer: Organisation's Name:	National Grid
Details of Proposer: Organisation's Name:	National Grid		

Capacity in which the Amendment is being proposed: (i.e. CUSC Party, BSC Party or "energywatch")	CUSC Party
Details of Proposer's Representative: Name: Organisation: Telephone Number: Email Address:	Emma Carr National Grid 01926 655843 Emma.j.carr@uk.ngrid.com
Details of Representative's Alternate: Name: Organisation: Telephone Number: Email Address:	Mark Duffield National Grid 01926 654971 mark.duffield@uk.ngrid.com
Attachments (Yes/No): If Yes, Title and No. of pages of each Attachment: Yes – proposed legal text	

Notes:

1. Those wishing to propose an Amendment to the CUSC should do so by filling in this "Amendment Proposal Form" that is based on the provisions contained in Section 8.15 of the CUSC. The form seeks to ascertain details about the Amendment Proposal so that the Amendments Panel can determine more clearly whether the proposal should be considered by a Working Group or go straight to wider National Grid Consultation.
2. The Panel Secretary will check that the form has been completed, in accordance with the requirements of the CUSC, prior to submitting it to the Panel. If the Panel Secretary accepts the Amendment Proposal form as complete, then he will write back to the Proposer informing him of the reference number for the Amendment Proposal and the date on which the Proposal will be considered by the Panel. If, in the opinion of the Panel Secretary, the form fails to provide the information required in the CUSC, then he may reject the Proposal. The Panel Secretary will inform the Proposer of the rejection and report the matter to the Panel at their next meeting. The Panel can reverse the Panel Secretary's decision and if this happens the Panel Secretary will inform the Proposer.

The completed form should be returned to:

Beverley Viney
Panel Secretary
Commercial Frameworks
National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick, CV34 6DA
Or via e-mail to: beverley.viney@uk.ngrid.com

(Participants submitting this form by email will need to send a statement to the effect that the proposer acknowledges that on acceptance of the proposal for consideration by the Amendments Panel, a proposer which is not a CUSC Party shall grant a licence in accordance with Paragraph 8.15.7 of the CUSC. A Proposer that is a CUSC Party shall be deemed to have granted this Licence).

3. Applicable CUSC Objectives** - These are defined within the National Grid Company Transmission Licence under Section C7F, paragraph 15. Reference should be made to this section when considering a proposed amendment.