CUSC Modification Proposal Form (for national grid Charging Methodology Proposals) CMP246

Connection and Use of System Code (CUSC)

Title of the CUSC Modification Proposal

Introduction of a new "Category 5 Intertripping Scheme" to include System to System intertrips in relation to One-off Charges.

Submission Date

17 June 2015

Description of the Issue or Defect that the CUSC Modification Proposal seeks to address

A User may receive an advancement Offer with respect to a Bilateral Embedded Generation Agreement (BEGA) with NGET to connect the User's proposed generator. As part of the Offer, NGET may seek a "One-Off" charge relating to a "System to System Intertrip". This type of intertrip is not currently described as either a Category 1, 2, 3 or 4 Intertripping Scheme under the CUSC or the Grid Code. In Section 14.4.2 of CUSC it defines which intertrips can be charged as One-off Works but does not include how unspecified intertrips (such as the System to System operational intertrip) shall be treated.

On comparison of the functionality of Categories 1, 2, 3 and 4 Intertripping Scheme, it is of the belief that the proposed "System to System Intertrip" is similar to Categories 2 and 4 Intertripping Schemes which are not subject to One-off Charges under section 14.4.2 of CUSC as specified below:

"a one-off charge will be levied for a Category 1 Intertripping Scheme or a Category 3 Intertripping Scheme. A one-off charge will not be levied for a Category 2 Intertripping Scheme or a Category 4 Intertripping Scheme."

The differences and similarities between the new "Category 5 Intertripping Scheme" and the existing categories are outlined below:

- Category 1 Intertripping Scheme relates to a Variation to Connection Design, which is not the case for the Category 5 Intertripping Scheme;
- Category 2 Intertripping Scheme is to alleviate overload on a circuit which is also the purpose as the Category 5 Intertripping Scheme;
- Category 3 Intertripping Scheme is to prevent overload on a third party circuit which is not the case for the Category 5 Intertripping Scheme; and
- Category 4 is to allow timely restoration of the Transmission System, which is one of the purposes of the Category 5 Intertripping Scheme.

In conclusion, the characteristics of the Category 5 Intertripping Scheme are similar to those of Categories 2 and 4 Intertripping Scheme and unrelated to Categories 1 and 3 Intertripping Scheme and, therefore, in accordance with GB ECM-01 there should be no One-off Charge for a Category 5 Intertripping Scheme.			
Description of the CUSC Modification Proposal			
This modification proposal aims to class a System to System Intertrip within the CUSC as a Category 5 Intertripping Scheme, therefore clarifying the position in relation to the treatment of a System to System Intertrip in relation to One off Works.			
The proposed text change to Section 14.4.2 of CUSC is:			
"Consistent with these principles and in accordance with Connection Charging Methodology modification GB ECM-01, which was implemented on 1 December 2005, a one-off charge will be levied for a Category 1 Intertripping Scheme or a Category 3 Intertripping Scheme. A one-off charge will not be levied for a Category 2 Intertripping Scheme, a Category 4 Intertripping Scheme or a Category 5 Intertripping Scheme."			
Another CUSC Modification has been proposed alongside this proposal to also add to the CUSC definitions;			
"Category 5 Intertripping Scheme" as defined in the Grid Code.			
Impact on the CUSC			
As set out above: amendments to Section 14.4.2.			
Do you believe the CUSC Modification Proposal will have a material impact on Greenhouse Gas Emissions? Yes / No			
Yes - without this modification there is a risk that a System to System Intertrip (Category 5 Intertripping Scheme) which will reduce system constraints and is enduring but is charged as One-off Works to a specific User will not be implemented because the User will not be able to afford the One-off Charges. Consequently, this may result in a termination of the agreement with National Grid which will result in the intertrip not being implemented. As a result increasing constraints on renewable generation will increase carbon dioxide emissions accordingly.			
Impact on Core Industry Documentation. Please tick the relevant boxes and provide any supporting information			
BSC			

Grid Code X			
STC			
Other (please specify)			
The System to System intertrip should be described in the Grid Code. Suggested text for this scheme and an update of the definition of Operational Intertripping is outlined below:			
"Operational Intertripping The automatic tripping of circuit-breakers to prevent abnormal system conditions occurring, such as over voltage, overload, System instability, etc. after the tripping of other circuit-breakers following power System fault(s) which includes System to Generating Unit, System to CCGT Module, System to Power Park Module, System to DC Converter, System to Demand and System to System Intertrip Scheme."			
"Category 5 Intertripping Scheme			
A System to System intertrip scheme which is required to alleviate an overload on one or more circuits on the National Electricity Transmission System and the operation of which results in a reduction in Active Power on the overloaded circuit(s) which connect one part of the National Electricity Transmission System to another part of the National Electricity Transmission System ."			
Urgency Recommended: Yes /			
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Yes			
Yes Justification for Urgency Recommendation The One-off Charge proposed by NGET to the User is putting the development of the project at risk due to its high costs. The One-off Charge would, therefore, have a significant commercial			
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Should this CUSC Modification Proposal be considered exempt from any ongoing Significant Code Reviews?				
No. It is not believed that this proposal will interact with any ongoing SCRs.				
Impact on Computer Systems and Processes used by CUSC Parties:				
None identified at this stage.				
Details of any Related Modification to Other Industry Codes				
Grid Code modifications have been identified but have not been requested.				
Justification for CUSC Modification Proposal with Reference to Applicable CUSC Objectives for Charging:				
Please tick the relevant boxes and provide justification for each of the Charging Methodologies affected.				
Use of System Charging Methodology				
(a) that compliance with the use of system charging methodology facilitates effective competition in the generation and supply of electricity and (so far as is consistent therewith) facilitates competition in the sale, distribution and purchase of electricity;				
(b) that compliance with the use of system charging methodology results in charges which reflect, as far as is reasonably practicable, the costs (excluding any payments between transmission licensees which are made under and in accordance with the STC) incurred by transmission licensees in their transmission businesses and which are compatible with standard condition C26 (Requirements of a connect and manage connection);				
(c) that, so far as is consistent with sub-paragraphs (a) and (b), the use of system charging methodology, as far as is reasonably practicable, properly takes account of the developments in transmission licensees' transmission businesses.				
 (d) compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency. These are defined within the National Grid Electricity Transmission plc Licence under Standard Condition C10, paragraph 1. 				
Objective (c) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).				

Full justification:			
Connection Charging Methodology			
X∏(a)	that compliance with the connection charging methodology facilitates effective competition in the generation and supply of electricity and (so far as is consistent therewith) facilitates competition in the sale, distribution and purchase of electricity;		
X (b)	that compliance with the connection charging methodology results in charges which reflect, as far as is reasonably practicable, the costs (excluding any payments between transmission licensees which are made under and in accordance with the STC) incurred by transmission licensees in their transmission businesses and which are compatible with standard condition C26 (Requirements of a connect and manage connection);		
X□(c)	that, so far as is consistent with sub-paragraphs (a) and (b), the connection charging methodology, as far as is reasonably practicable, properly takes account of the developments in transmission licensees' transmission businesses;		
(d)	in addition, the objective, in so far as consistent with sub-paragraphs (a) above, of facilitating competition in the carrying out of works for connection to the national electricity transmission system.		
(e)	compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency. These are defined within the National Grid Electricity Transmission plc Licence under Standard Condition C10, paragraph 1.		
	Objective (c) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).		
Full justification:			
National Grid's licence requires it to operate an efficient and reliable National Electricity Transmission System within certain technical parameters (under the Grid Code, for example) to ensure a continual and safe operation. This modification, if approved, would lead to greater transparency regarding transmission operational intertrips and formalises the definition of a new kind of intertrip which has overall system benefits.			
This modification ensures that Users are dealt with in an equitable manner in respect of One-Off Charges and intertrips. The treatment of existing Category 1-4 Intertrips in relation to One-Off charges has set a precedent. At present the rules on One-Off Charges for intertrips do not include the new intertrip (as described above) and this new intertrip should be defined in the			

Grid Code and CUSC and should be assessed using the same principles as existing intertrips

(for example in GB ECM-01) in order to ensure that it is also applied in an equitable and consistent manner thereby not distorting competition.

Additional details

Details of Proposer: (Organisation Name)	Tullymurdoch Limited		
Capacity in which the CUSC Modification Proposal is being proposed: (i.e. CUSC Party, BSC Party or "National Consumer Council")	CUSC Party		
Details of Proposer's Representative: Name: Organisation: Telephone Number: Email Address:	Sha Manager		
Details of Representative's Alternate: Name: Organisation: Telephone Number: Email Address:	0404 000 0404		
Attachments (/No): If Yes, Title and No. of pages of each Attachment:			

Contact Us

If you have any questions or need any advice on how to fill in this form please contact the Panel Secretary:

E-mail cusc.team@nationalgrid.com

Phone: 01926 653606

For examples of recent CUSC Modifications Proposals that have been raised please visit the National Grid Website at

http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/CUSC/Modifications/Current/

Submitting the Proposal

Once you have completed this form, please return to the Panel Secretary, either by email to jade.clarke@nationalgrid.com copied to cusc.team@nationalgrid.com, or by post to:

Jade Clarke
CUSC Modifications Panel Secretary, TNS
National Grid Electricity Transmission plc
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

If no more information is required, we will contact you with a Modification Proposal number and the date 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, the Proposal can be rejected. You will be informed of the rejection and the Panel will discuss the issue at the next meeting. The Panel can reverse the Panel Secretary's decision and if this happens the Panel Secretary will inform you.