# Codes Summary – July 2017
## (as at 18 July 2017)

This document provides a summary as to latest developments concerning the various other Industry Codes. Further detailed information can be found at:

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

## CUSC

The most recent meeting of the **CUSC Modification Panel** was held on 30 June 2017. The next Panel meeting will take place on 28 July 2017. Two Special CUSC Panels were held on 20 June and 4 July.

**CMP250 Stabilising BSUoS with at least a twelve month notice period** aims to eliminate BSUoS volatility and unpredictability by proposing to fix the value of BSUoS over the course of a season, with a notice period for fixing this value being at least 12 months ahead of the charging season. CMP250 was presented at the CUSC Panel meeting on 28 August 2015. The Panel unanimously agreed that CMP250 should be developed by a Workgroup and set an initial Workgroup timetable of four months, to report back to the December 2015 Panel meeting. At the November 2015 Panel meeting, a three month extension was granted. At the January 2016 CUSC Panel meeting, a further two month extension to CMP250 was agreed and the Workgroup will now report back to the May 2016 Panel meeting. The Workgroup Consultation was published on 15 March 2016 and closed on 14 April 2016, receiving sixteen responses. A two month extension was agreed at the May 2016 Panel meeting and the Workgroup will now report back to the Panel on 29 July 2016. This modification is still at the workgroup stage. The most recent Workgroup meeting was held on 10 July 2017.

**CMP251 Removing the error margin in the cap on total TNUoS recovered by generation and introducing a new charging element to TNUoS to ensure compliance with European Commission Regulation 838/2010** aims to ensure that there is no risk of non-compliance with European Regulation 838/2010 by removing the error margin introduced by CMP224 and by introducing a new charging element to the calculation of TNUoS. CMP251 was presented to the CUSC Panel on 28 August 2015. The Proposer requested that the Modification be treated as urgent. The Panel decided unanimously that CMP251 should not be treated as urgent and should be developed by a Workgroup. The Panel Chair has written to the Authority informing them that the Panel will not be requesting urgency for CMP251. At the November Panel meeting, a two month extension was granted and at the January CUSC Panel meeting, a further one month extension to CMP251 was agreed. Another one month extension to the Workgroup timetable was granted at the February 2016 CUSC Panel meeting and the Workgroup will now report back to the April CUSC Panel meeting. The Workgroup Consultation was published on 29 February 2016 and closed on 29 March 2016, receiving ten responses. On 29 April 2016, the CMP251 Workgroup report was presented the CUSC Panel. The Panel asked that the CMP251 Workgroup look at the CMP261 legal opinion as part of their Terms of Reference and were asked to report back with an amended report to the May 2016 CUSC Panel. A one month extension was agreed at the May 2016 Panel meeting and the Workgroup will now report back on 24 June 2016. The Panel noted that although the paper had been presented as a late paper to the Panel, they were happy for it to progress to Code Administrator Consultation. CMP251 is due to be voted on at the CUSC Panel on the 30th September 2016. CMP251 has been sent to the Authority for a decision. A decision from the Authority is still pending.

**CMP261 Ensuring the TNUoS paid by Generators in GB in Charging Year 2015/16 is in compliance with the €2.5/MWh annual average limit set in EU Regulation 838/2010 Part B (3).** CMP261 aims to ensure that there is an ex post reconciliation of the TNUoS paid by GB generators during charging year 2015/16 which will take place in Spring 2016 with any amount in excess of the €2.5/MWh upper limit being paid back, via a negative generator residual levied on all GB generators who have paid TNUoS during the period 1 April 2015 to 31 March 2016 inclusive. CMP261 was presented to the CUSC Panel at a special CUSC Panel meeting on 9 March 2016. CMP261 was raised as urgent, however the Panel agreed by majority not to request d urgency

from the Authority and have requestethe Workgroup to progress the modification in a shortened timescale. The Authority responded to this request on 17 March 2016 agreeing that CMP261 should not be considered as urgent, however should be progressed in line with an accelerated timetable. A two month extension was agreed at the May 2016 CUSC Panel, and the Workgroup report is to be presented at July 2016 Panel although will be discussed again at June 2016 Panel where they may agree to a Special CUSC Panel before July 2016 Panel. The Workgroup is on track and is currently progressing towards the publication of the CMP261 Workgroup Consultation at the beginning of July 2016. This modification is at Code Administrator Consultation stage and will be go to the CUSC Panel for their recommendation vote on Friday 25th November 2016. The CUSC Panel Recommendation vote was held on 25th November 2016. CMP261 was submitted to the Authority on 30th November. A decision from the Authority is still pending. The Authority has sent back CMP261 to Workgroup stage. The most recent Workgroup meeting was held on 22 May 2017. CMP261 was tabled at the CUSC Panel meeting on the 26 May 2017 and the Panel agreed for it to proceed to Code Administrator Consultation. At the CUSC Panel meeting on 20 June 2017, the Panel voted on CMP261 against the Applicable CUSC Objectives. The Panel agreed by majority that the Original, WACM1 and WACM2 were all better than the Baseline. Most Panel members considered WACM1 as the best option. CMP261 was submitted to the Authority on 23 June 2017.

**CMP264 Embedded Generation Triad Avoidance Standstill.** This modification seeks changes to the Transport and Tariff Model and billing arrangements to remove the netting of output from New Embedded Generators until Ofgem has completed its consideration of the current electricity transmission Charging Arrangements (and any review which ensues) and any resulting changes have been fully implemented. The Panel discussed the proposed timetable for this modification and agreed to request the Workgroup to progress to a shortened timetable. At the June 2016 CUSC Panel, the Workgroup requested and were granted approval of suggested amendments to the Terms of Reference. The Workgroup report is due to be sent to the Panel in October to proceed to Code Administrator Consultation. CMP264 was tabled at the Special CUSC Panel meeting on the 25th of October and the Panel agreed for it to proceed to Code Administrator Consultation. The Panel will hold their recommendation vote on the 23rd of November, ahead of submission to the Authority. The recommendation vote was held on the 25 November 2016. It was submitted to the Authority on 28 November. CMP264 has been approved by the Authority with the implementation date of 1 April 2018.

**CMP265 Gross charging of TNUoS for HH demand where embedded generation is in Capacity Market.** This modification specifically seeks to address the issue that half hourly metered (HH) demand for TNUoS purposes is currently charged net of embedded generation. The Proposer requested that CMP265 is considered as Urgent. The Panel agreed by majority that CMP265 should not be considered as Urgent and should be developed by a Workgroup. The Panel understood the Proposer's reasoning for requesting urgency and agreed to request the Workgroup to progress to a shortened timetable. The Panel's request not to accept urgency will be submitted to the Authority and will be awaiting their response. At the June 2016 CUSC Panel, the Workgroup requested and were granted approval of suggested amendments to the Terms of Reference. The Workgroup report is due to be sent to the Panel in October to proceed to Code Administrator Consultation. CMP265 was tabled at the Special CUSC Panel meeting on the 25th of October and the Panel agreed for it to proceed to Code Administrator Consultation. The Panel will hold their recommendation vote on the 23rd of November, ahead of submission to the Authority. The recommendation vote was held on the 25th November 2016. It was submitted to the Authority on 28th November. CMP265 has been approved by the Authority with the implementation date of 1 April 2018.

**CMP268'Recognition of sharing by Conventional Carbon plant of Not-Shared Year-Round circuits'**

CMP268 proposes to change the charging methodology to more appropriately recognise that the different types of "Conventional" generation do cause different transmission network investment costs, which should be reflected in the TNUoS charges that the different types of "Conventional" generation pays ideally ahead of the December Capacity Auction. CMP268 was presented at the CUSC Panel meeting on 29 July 2016. The CUSC Panel agreed by majority the modification should be developed by a Workgroup following a standard timetable. The Authority recommended that CMP268 follow an urgent timetable, this was agreed with the CUSC Panel at the August meeting. The workgroup consultation was published on the 16 September and will close on the 30 September 2016. CMP268 Code Administrator Consultation closed on the 27 October. This modification was voted on by the Panel on the 15 November at the Special CUSC Panel meeting and was submitted to the Authority on the 25 November. The Authority has sent back CMP268 modification to Workgroup stage. The most recent Workgroup meeting was held on 14 June 2017. At the Special CUSC Panel meeting on 4 July 2017, the Panel voted on CMP268 against the Applicable CUSC Charging Objectives. One Panel member abstained from the Panel vote. The Panel view was split for both Vote 1 and Vote 2 (did the Original facilitate the Applicable CUSC Charging Objectives better than the Baseline and which option was considered to be the best). There was not a majority support for this Proposal. CMP268 was submitted to the Authority on 6 July 2017.

**CMP269 'Potential consequential changes to the CUSC as a result of CMP264'** This modification aims to address a number of consequential changes required to non-charging sections of the CUSC to reflect the CMP264 Proposal or any alternative proposals agreed by the CMP264 Workgroup. CMP269 was tabled at the Special CUSC Panel meeting on the 25th of October and the Panel agreed for it to proceed to Code Administrator Consultation. The Panel will hold their recommendation vote on the 25 November, ahead of submission to the Authority. The recommendation vote was held on the 25 November 2016. It was submitted to the Authority on 28 November. CMP269 has been approved by the Authority with the implementation date of 1 April 2018.

**CMP270 'Potential consequential changes to the CUSC as a result of CMP265'.** This modification aims to address a number of consequential changes required to non-charging sections of the CUSC to reflect the CMP265 Proposal or any alternative proposals agreed by the CMP265 Workgroup. CMP270 was tabled at the Special CUSC Panel meeting on the 25th of October and the Panel agreed for it to proceed to Code Administrator Consultation. The Panel will hold their recommendation vote on the 23 November, ahead of submission to the Authority. The recommendation vote was held on the 25 November 2016. It was submitted to the Authority on 28 November. CMP270 has been approved by the Authority with the implementation date of 1 April 2018.

**CMP271 'Improving the cost reflectivity of demand transmission charges'.**
CMP271 aims to improve the cost reflectivity of demand transmission charges. It is proposed that the transmission charging methodology should include a Peak Security demand tariff levied at Triad, a Year Round demand tariff and revenue recovery levied on year round supplier demand. The initial workgroup meeting will be held on the 1st November 2016. The most recent Workgroup meeting was held on the 22 May 2017.

**CMP275 'Transmission Generator Benefits in the provision of ancillary and balancing services- levelling the playing field'**. CMP275 seeks that a principle of financial mutual exclusivity is introduced to prevent BM units from accessing multiple sources of duplicate and overlapping revenue from ancillary services on the same asset. The initial Workgroup meeting was held on 15 February 2017. The next Workgroup Meeting will be held on 17 July 2017.

**CMP274 'Winter TNUoS Time of Use Tariff (TToUT) for Demand TNUoS'**
CMP274 aims to improve the cost reflectivity of demand transmission charges. It is proposed that the transmission charging methodology should include a Winter Weekday Time of use demand tariff which reflects the existing Demand Residual element of the existing methodology so that revenue recovery is levied over a longer period of assessment. The initial workgroup meeting was held on the 1 November 2016. The most recent Workgroup meeting was held on the 22 May 2017.

**CMP276 'Socialising TO costs associated with "green policies".** CMP276 proposes a reduction in the demand residual element of the TNUoS £/kW ("Triad") charge by creating two new charge lines for all demand offtakes: (i) with the level of charge based on a fixed charge per MPAN (or alternatively the import meter size of each consumer) and (ii) a simple per kWh charge on all consumers. Currently demand residual is the cost bucket which is left to capture all TO costs that cannot be otherwise allocated. Unless there is change the current methodology this is forecast to lead to high demand TNUoS payments at the time of Triads, which are widely recognised to be unacceptable and unsustainable. Mods CMP264 and CMP265 deal with a subset of the symptoms only, because they define the defect too narrowly. Their definition prohibits the full

range of potential solutions being considered, and by excluding certain types of meter and treating some meters differently to others, this inevitably leads to a discriminatory outcome. This modification is defined to address the underlying cause of the escalation in demand residual and proposes a simple, non-discriminatory approach to its resolution which addresses equitable competition in ALL markets, domestic and international, reduces total cost to consumers and has the structure to form an enduring solution. Nominations for this Workgroup are open until 24 February 2017. A decision letter from the Authority granting urgency is pending. The initial Workgroup meeting was held on17 March 2017. The next Workgroup meeting will be held on 24 July 2017.

**CMP277 'Special License Condition 4J'.** This modification seeks to update Section 14.30.6 and 14.32 of the CUSC to reflect the changes made to the terms of the external BSUoS charges recoverable by the SO due to new License Condition 4J and changes to Special License Condition 4C.1. On 31 March 2017, the CUSC Panel agreed that this proposal meets the Self- Governance criteria and should progress to Code Administration Consultation. The original implementation date for these Proposals was delayed due additional clarification which was required for the Legal Text. The Panel noted that this issue has now been resolved and the modification was implemented in the CUSC ON 6 July 2017.

**CMP278 'BSIS 2017 Housekeeping'.** This modification seeks to Update CUSC sections 14.30.11 and 14.32 to reflect the changed cap and collar and sharing factors of the Balancing Services Incentive Scheme as detailed in the current Ofgem Statutory License Consultation and; update 14.32 example BSUoS calculation to reflect changed terms within external BSUoS costs detailed in License change. On 31 March 2017, the CUSC Panel agreed that this proposal meets the Self- Governance criteria and should progress to Code Administration Consultation. The original implementation date for these Proposals was delayed due additional clarification which was required for the Legal Text. The Panel noted that this issue has now been resolved and the modification was implemented in the CUSC ON 6 July 2017.

**CMP279' 'Housekeeping modification to amend typographical errors in the CMP272 legal text.'** The Authority when making its decision to approve the implementation of CMP272 noted three legal text errors in the Final Modification Report and recommended that these should be corrected via a Housekeeping Modification. On 28 April 2017, the CUSC Panel unanimously agreed that this proposal meets the Fast Track Self- Governance criteria and should progress through to the Appeals window. No Appeals were received and in line with the timetable CMP279 was implemented on 31 May 2017.

CMP280' Creation of a New Generator TNUoS Demand Tariff which Removes Liability for TNUoS Demand Residual Charges from Generation and Storage Users' The Modification aims to remove liability from Generator and Storage Parties for the Demand Residual element of the TNUoS tariff. The CUSC Panel agreed to process this proposal following a standard timetable.

CMP281' Removal of BSUoS Charges From Energy Taken From the National Grid System by Storage Facilities' The Modification aims to remove liability from storage facilities for Balancing Services Use of System (BSUoS) charges on imports. The Panel agreed to process this proposal following a standard timetable.

CMP282' The effect Negative Demand has on Zonal Locational Demand Tariffs' To amend how the DCLF model calculates Zonal Locational Demand tariffs so that the final locational zonal demand tariffs accurately reflect the underlying locational signals. The Panel agreed to recommend that this proposal follow an Urgent timetable. The initial Workgroup meeting will be held on 14 July 2017.

CMP283' Consequential Changes to enable the Interconnector Cap and Floor regime' : This modification aims to facilitate the Interconnector Cap and Floor regime through creating the process for data provision between Interconnectors and National Grid within the CUSC. The Panel agreed to treat this proposal as a standard modification to be issued out to Code Administrator consultation without forming a Workgroup.

**Grid Code**

The most recent meeting of the **Grid Code Review Panel** was held on 21 June 2017. The next GCRP will take place on 19 July 2017.

**GC0036/GC0079 Frequency Changes during Large Disturbances and their impact on the Total System** The Frequency Changes during Large Disturbances and their impact on the Total System Workgroup was established by Grid Code Review Panel (GCRP) at the May 2012 GCRP meeting. The Workgroup was set up to review the expected behavior of the Total System when subject to frequency changes during large disturbances with particular focus on the rate of change of frequency and to review the findings of the frequency response technical sub-group and assess their implications, take account of relevant international practice and the approach taken in European code development and evaluate the costs, benefits and risks of any actions necessary to maintain or improve current levels of resilience to frequency changes under future system conditions. The first Workgroup was held on 26 October 2012 published an open letter to the Industry informing interested parties of the likely setting changes and inviting them to an Industry Workshop. The workgroup hosted two industry seminars, one in Scotland on 25 April 2013 and one in London on 8 May 2013. The Workgroup presented their workgroup report to the July GCRP. The Workgroups proposals recommend changing all Rate of Change of Frequency Protection Relays on Generators between 5 and 50MW to 1Hzs$^{-1}$ measured over 500ms. In conjunction with the Industry Consultation, the Workgroup hosted two industry seminars to engage with affected parties in September 2013. The Workgroup then investigated sub 5MW generators

and inverter type technologies. The Licensees recommendation is that Rate of Change of Frequency (RoCoF) protection settings should be changed at new and existing distributed generators in stations of registered capacity of 5MW and above to 1Hzs-1, using a delay setting of 500ms, with the exception of synchronous generators commissioned before 1 July 2016, where a minimum setting of 0.5Hzs-1 is permissible. The specific criteria to be applied should be stipulated in both the Distribution Code and Engineering Recommendation G59. A second consultation took place during Spring 2014. The Report to the Authority, proposing changes to the Distribution Code and Engineering Recommendation G59, was submitted to Ofgem on 9 May 2014. The Workgroup are now progressing phase 2 of the work which involves looking at generators with registered capacity of less than 5MW. Ofgem published the Phase 1 decision paper on 23 July 2014 and accepted the proposals, pending some minor changes to the legal text. The last workgroup meeting took place on 19 December 2014. The Terms of Reference have been updated and were approved at the GCRP in November 2014 and Phase 2 of the work is now being progressed under GC0079. An industry workshop on R OC OF Protection Settings was held on 20 March 2015. The most recent workgroup meeting was held on the 28th February 2017. Further research into Vector Shift studies and scenarios are progressing, whilst a presentation to the ENFG March meeting is planned. The most recent Workgroup Meeting was held on 17 July 2017 via WebEx.

**GC0048 Joint GCRP/DCRP Workgroup on Application / Implementation of the Requirements for Generators.** The Requirements for Generators (RfG) European Network Code is targeted by the European Commission to complete comitology. It will then take precedence over GB law and associated Industry Codes. The establishment of a joint GCRP/DCRP Workgroup was required to progress national application/implementation of RfG including necessary code changes. There are complex structural issues to consider in incorporating RfG into the GB codes. The Workgroup met for the first time in January 2014 and are progressing through their Terms of Reference. The code is not making the anticipated progress with the Commission and there are no planned dates for further meetings of the Cross Border Committee which would discuss the draft code and ultimately vote on it. The last meeting was held on 12 July 2016. The following Workgroups were held on 13 September 2016, 18 October 2016 and 8 November 2016. The next meeting is scheduled for 14 December 2016. The Voltage and Reactive Industry Consultation was sent out on 23 December 2017, the consultation period was agreed to be extended and the closing date for responses is 30 January 2017. A series of Teleconferences have been set up to discuss the Consultation with industry with one being held on 11 January 2017 and the other scheduled for 19 January 2017. The Consultation responses were reviewed and a Workgroup Meeting was held on 1 March 2017 to share the responses. This Modification is being reviewed and will be superseded by subsequent Modifications due to be raised.

**GC0087 Development of Grid Code Frequency Response provisions.** This was raised at the November 2014 GCRP and follows on from GC0022 (Frequency Response). There were extensive discussions on GC0022 over a long period of time and a number of issues remain outstanding. It was proposed at the November GCRP to close GC0022 and to raise GC0087 which explicitly lists the outstanding issues that need addressing via the formation of a new Grid Code Workgroup, and to also ensure that it is clear what the defect is. A workshop took place on 3 March 2015 in order to be clear on the defect and the order in which items should be developed and the second workgroup meeting took place on 10 August 2015. A revised GC0087 scope (including RfG Frequency related work) was presented to the GCRP on 16 September and the Panel agreed to proceed with the revised scope acknowledging that the Workgroup membership will have to be broadened. The most recent workgroup meeting took place on 15 June 2016. The most recent Workgroup meetings took place on 2 August 2016, 13 September and 18 October 2016. The Frequency Response Workgroup Draft Report was sent out on 18 January 2017, the consultation period was agreed to be extended and the closing date for responses is 17 February 2017. The responses were reviewed and amendments made. The Workgroup Draft Report was reissued for further comment to be made by 3 March 2017. Consultation closed week commencing 15th May.

**GC0090 HVDC.** This has been raised to progress the GB implementation of the HVDC European Network Code. A workgroup has been established and the last meeting took place on 13 July 2016. The Workgroup re-convened in conjunction with the planned EU Meetings held on 1 February 2017. Paused to allow RfG to progress.

**GC0091 Joint GCRP/DCRP Workgroup on GB Application of Demand Connection Code.** This has been raised to progress the GB implementation of the DCC European Network Code. A workgroup has been established and the last meeting took place on 6 July 2016. The most recent Workgroup meeting took place on 1st February 2017; future work to connect with the CUSC team was identified. The last Workgroup was held on 6th April. Good progress made on DSR.

**GC0095 Transmission System Operation Guideline.** This is a GB workgroup to progress the implementation of the Transmission System Operation Guideline (TSOG) European Network Code. The first workgroup meeting took place on 11 July 2016. The last meeting was held on the 18th of October. The last Workgroup Meeting was held on 1st March 2017, this focused on the Entry into Force requirements.

**GC0096 Energy Storage.** This is a workgroup to consider the appropriate technical requirements for Energy Storage technologies connecting to the Transmission system, and discuss any high level changes that may be necessary to the Grid Code. The Code Administrator ran interactive workshops on 17 August 2016. The next sets of meetings to be held are via Teleconference on a selection of dates for industry members. Following the Teleconferences this modification has now sent out for Workgroup nominations. The first Workgroup Meeting was held on 30 January 2017. The Workgroup Report is currently being progressed.

**GC0097 TERRE.** This is a newly formed Workgroup to consider the appropriate technical requirements for Energy Storage technologies connecting to the Transmission system, and discuss any high level changes that may be necessary to the Grid Code. GC0097 will review to what extent existing Grid Code processes, primarily in the Balancing Code section (BC1-3), need to be changed or supplemented in order to facilitate TERRE participation in GB. It will also consider the interaction with the existing GB Balancing Mechanism process given their converging timescales. The first Workgroup meeting was held on 20 January 2017 and the second Workgroup Meeting was held on 21 February 2017. The next Workgroup meeting was held on 19 July 2017.

**GC0099 Establishing a Common Approach to Interconnector Scheduling** raised at the Grid Code Review Panel held on 30 May 2017.

**GC0100 EU Connection Codes GB Implementation – Mod 1** raised at the Grid Code Review Panel held on 30 May 2017. The initial Workgroup meeting was held on the 7 June 2017.

**GC0101 EU Connection Codes GB Implementation – Mod 2** raised at the Grid Code Review Panel held on 30 May 2017. The initial Workgroup meeting was held on the 7 June 2017.

## SQSS

The most recent meeting of the **SQSS Panel** was held on 14 June 2017 . The next SQSS Panel was cancelled on 12 April 2017 due to a limited Agenda. The next meeting will be held on 13 September 2017.

**GSR012: Interconnectors**: This considers a consistent treatment of interconnectors when planning their local connections and their impact on wider infrastructure requirements. The original understand was that the Workgroup was due to presenting their working-group report to the NETS SQSS Review Panel in February. However, following Workgroup discussion, the Workgroup has yet to conclude its thinking on the Workgroup Report and aims to meet again in May to finalise the Report before presenting to Panel in September.

**GSR014 Offshore Requirements at Onshore Substations:** This considers the onshore substation requirements (one or two switch-bays) where offshore cables connect to the onshore network. At the August 2015 NETS SQSS Review Panel it was unanimously agreed that this modification is ready to be submitted to the Authority for a decision. The position of the

Modification Report is being sought to be submitted to the Authority thereafter. This Modification has now been formally withdrawn following a request from the Proposer and approval from both the SQSS Panel and the Authority.

**GSR016 Application of Scaling Factors and the Inclusion of Embedded Wind in NETS SQSS Chapter 4 Studies:** This aims to determine more realistic dispatch levels for generation, including embedded generation, in local and wider system capability studies. The NETS SQSS Review Panel is coming under increased pressure to conclude this modification. As a consequence this may now be wrapped up with a new piece of work concerning the Security and Economy Planned Transfer Conditions as detailed below. A meeting was held on 15th December 2016. The Workgroup is on hold whilst it quantifies what further analysis is required to progress in conjunction with Ofgem. The Workgroup Report is currently being drafted.

**GSR018 Sub-Synchronous Oscillations (SSO):** The NETS SQSS Review Panel agreed to progress work to develop and clarify the transmission licensees' responsibilities with respect to sub-synchronous oscillation issues. A workgroup report has been approved and consulted upon. The workgroup is due to present their modification report to the NETS SQSS Review Panel soon. Once approved, this shall be submitted to the Authority. This modification has been submitted to the Authority. This modification has been sent back by the Authority, work on this modification will be done in the GC0077 workgroup. The workgroup re-grouped to meet on 5 December 2016 whereby it was agreed the Code Governance team would send out a revised draft of the Report to the Authority to the workgroup to comment. This will summarize the further evidence and background as discussed during the meeting. The relevant changes were made to the Final Workgroup Report and circulated to the Workgroup Members for comment. The Workgroup approved of the amendments and the Report is in a position to be re-submitted to the Authority. Following no further comments being received the Report to the Authority was re-submitted on 30 January 2017. The Authority made a decision on 7 March 2017 to approve the changes. The Authority have advised for the changes to take effect the Authority will need to modify the relevant conditions of the electricity transmission licence so that they refer to the new version of the SQSS. As this modification is not time critical the Authority have not yet issued a statutory consultation to modify the licences. The Authority will be doing this at an appropriate stage in the future, such as when the Authority issues a decision on other SQSS Modifications. Still awaiting a timescale for the license change to be completed.

**GSR019: Review of Chapter 7 Double Busbar Requirements:** It has been suggested that current interpretation of the NETS SQSS mandates the use of a double busbar (or equivalent) arrangement for the first onshore substation for offshore transmission system connections. However, a Cost Benefit Analysis (CBA) performed by DONG Energy aims to demonstrate that this requirement is not the most economic and efficient solution for all offshore wind farm connections. It has therefore been proposed that this interpretation within the NETS SQSS for the need to have double busbar substation arrangements is addressed and subject to NETS SQSS Review Panel assessment, this deterministic requirement be removed if no net benefit can be demonstrated for this configuration of switchgear when considering the specific characteristics of offshore generation connections. The workgroup is due to present their workgroup report to the NETS SQSS Review Panel soon. This modification stalled for a period, the proposer of this modification is due to attend the October Panel to discuss work restarting in this area. The proposer of this modification presented at the October Panel meeting. The Panel voted to withdraw this Modification at the December Panel meeting; this was communicated with DONG whom accepted the withdrawal. A Paper has not been submitted. The Modification will either be absorbed in the work around the Chapter 7 Review or withdrawn.

**GSR022: Design of Main Interconnected Transmission System (MITS):** It is proposed to review the assumptions used to set power system transfer conditions for design of the MITS. These conditions are covered in Chapter 4 of the NETS SQSS and are referred to as the "Security Planned Transfer Condition" and the "Economy Planned Transfer Condition". For the 2015 Future Energy Scenarios (FES), lower levels of thermal generation capacity in later years cause the "Security Planned Transfer Condition" to break down. Additionally, it is agreed that the scaling of different types of generation and external system connections in the application of the "Economy Planned Transfer Condition" should be reviewed. Reviewing the two conditions will ensure that their use continues to identify accurately the future need for transmission infrastructure reinforcement. A working-group will shortly be established. A workgroup has been

established and the initial meeting will be held towards the end of October 2016. The initial workgroup meeting was held on the 31st of October 2016. The first face to face workgroup meeting was held on 15 January 2016. Following the initial Workgroup, analysis is being completed and will be fed into the next Workgroup

# AMALGAMATED ELECTRICITY CODES MODIFICATION REPORT

## As at 18 July 2017

This document contains the Modification Registers for the CUSC, STC, Charging, Grid Code and SQSS and is correct as of the above date.

The most up to date versions may be found at the following websites:

STC: **http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/STC/Modifications/**
CUSC: **http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/CUSC/Modifications/**
TCMF: **http://www2.nationalgrid.com/UK/Industry-information/System-charges/Electricity-transmission-Charges/**
Grid Code: **http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/Grid-code/Modifications/**
SQSS: **http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/SQSS/Modifications/**

BSC Amendments can be found on the following website:

www.elexon.co.uk/changeimplementation/ModificationProcess/ModificationReports/default.aspx