

**National Electricity Transmission System
Security and Quality of Supply Standards
(NETS SQSS)**

Modification Register

(Updated January 2019)

Modification Summary

Dates in **bold** are confirmed dates, while dates in *italics* are anticipated dates for future milestones.

SQSS GSR No.	Title	Modification Proposal Raised	Workgroup Stage	Previous Workgroup Meeting	Next Workgroup Meeting	Workgroup Report Approved by Review Panel	I/C Published	I/C Closed	Responses Received	Modification Report Submitted to Authority	Authority Decision	Implementation Date
016	Embedded Generation Assumptions	22 July 2013	→	11 January 2017	→	4 Dec 2017	6 Dec 2017	3 Jan 2018	→	28 Feb 2018	25 May 2018	<i>TBC</i>
018	Treatment of Sub-Synchronous Oscillations in the NETS SQSS	4 December 2013	→	→	→	2 Dec 2015	11 April 2016	09 May 2016	→	31 Jan 2017	7 March 2017	<i>TBC</i>
022	Security and Economy Required Transfer Conditions	1 June 2016	→	24 May 2014	<i>TBC</i>							
023	Clarification of the N-1-1 Requirements and minor housekeeping change	9 May 2018	x	x	x	x	25 June 2018	20 July 2018	→	24 Aug 2018		
024	National Grid Legal Separation Changes	9 May 2018	x	x	x	x	08 June 2016	05 July 2018	→	24 Aug 2018		
025	ER P28 Diagram Update	<i>14 Sep 2018</i>					<i>Sep 2018</i>	<i>Oct 2018</i>	→	<i>Nov 2018</i>		

Ongoing Modifications

SQSS GSR No.	016
Title	Embedded Generation Assumptions
Proposer	Vandad Hamidi (NGET)
Submitted	22 July 2013
Modification Description	Progress
<p>GSR016 was raised to specify how embedded generation should be treated in Chapter 4 MITS studies. The GSR009 modification to the NETS SQSS in 2011 specified certain scaling factors for various types of generation (based on fuel type) with different scaling factors under the economy and security criteria. These scaling factors are only considered for “large” power stations (i.e. generation over 100MW in England and Wales).</p> <p>Boundary transfer calculations are performed assuming static net demand within the boundaries. The net demand is supplied to transmission companies as part of Week 24 Data submissions from the DNOs. Given the increase in the penetration of embedded generation, it is no longer possible to accurately calculate boundary transfers without considering the impact of embedded generators within the boundaries. To date, there is no standard treatment of embedded generation in the DNO submissions, leading to various assumptions across GB.</p> <p>It is therefore recommended to amend the NETS SQSS to explicitly specify how to include the impact of small and medium power stations on boundary calculations.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 22 July 2013 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup, subject to ratification of the Terms of Reference.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues. The Terms of Reference have been agreed by the NETS SQSS Review Panel and a Workgroup has been established with Workgroup Meetings in progress. The Draft Workgroup Report is currently being reviewed by the Workgroup.</p> <p>Industry Consultation GSR016 was published for Industry Consultation on 6 December 2017 and closed on 3 January 2018.</p> <p>Modification Report The GSR016 Modification Report was submitted to the Authority on 28 February 2018.</p> <p>Authority Decision & Implementation The Authority approved GSR016 on 25 May 2018. The Authority also made a decision to delay the implementation of GSR018 and issue a second Industry Consultation to include both GSR016 and GSR018, so that both modifications can be implemented together. The Authority has not yet issued the statutory consultation to modify the licenses and will do so at an appropriate time in the future.</p>

SQSS GSR No.	018
Title	Treatment of Sub-Synchronous Oscillations in the NETS SQSS
Proposer	Graham Stein (NGET)
Submitted	4 December 2013
Modification Description	Progress
<p>A number of Transmission Licensees and Transmission Users are in the process of enhancing their networks or connecting generation using Series Capacitor and / or HVDC technology. Both of these types of equipment can cause sub-synchronous oscillations (SSO) to occur by interacting with other User's equipment in the form of sub-synchronous resonance (SSR) or sub-synchronous torsional interaction (SSTI).</p> <p>The Grid Code Review Panel Paper: "Suppression of Sub-Synchronous Resonance from Series Compensators" (pp13/54) proposed changes to the Grid Code to place obligations on Transmission Licensees to mitigate SSR where Series Compensation is deployed. The Grid Code Review Panel asked that these proposals be given further consideration in light of concerns raised by Transmission Licensees about how and where any SSR related obligations are expressed within the transmission frameworks. The Grid Code Review Panel also asked whether there was a need to capture SSR and SSTI within the NETS SQSS.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 4 December 2013 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup, subject to ratification of the Terms of Reference.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues. The Terms of Reference were approved at the 2 April 2014 NETS SQSS Review Panel and a Workgroup has been established. The Workgroup Report was presented and approved at the 2 December 2015 NETS SQSS Review Panel. This shall now proceed to industry consultation in due course.</p> <p>Industry Consultation An Industry Consultation was published on 11 April 2016 with a closing date of 09 May 2016.</p> <p>Modification Report A Modification Report that summarises the Industry Consultation responses has been produced and submitted to the Authority for a decision. The Modification was sent back by the authority with a request for further work to be done. The Modification Report was re-submitted to the Authority.</p> <p>Authority Decision & Implementation GSR018 was re-submitted to the Authority for a decision on 31 January 2017. The Authority approved the modification on 7 March 2017 and the first Statutory Industry Consultation to amend the licence closed on 19 March 2018. The Authority has decided that this modification is not time critical so a second Industry Consultation will be issued for GSR016 and GSR018, so that both modifications can be implemented together.</p>

SQSS GSR No.	022
Title	Security and Economy Required Transfer Conditions
Proposer	NGET
Submitted	1 June 2016
Modification Description	Progress
The Workgroup considers issues and interactions that arise when applying NETS SQSS Section 4 criteria due to the availability of generation and due to generation technology.	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 1 June 2016 where the NETS SQSS Review Panel determined that nominations for the Workgroup would be sent out and Terms of Reference agreed.</p> <p>Workgroup The amended Terms of Reference were agreed at Panel on 8 February 2017.</p> <p>Industry Consultation GSR022 has not yet progressed to this stage.</p> <p>Modification Report GSR022 has not yet progressed to this stage.</p> <p>Authority Decision & Implementation GSR022 has not yet progressed to this stage.</p>

SQSS GSR No.	023
Title	Clarification of the N-1-1 Requirements and Minor Housekeeping Change
Proposer	Bieshoy Awad (NGET)
Submitted	9 May 2018
Modification Description	Progress
<p>The proposal seeks to modify the NETS SQSS to ensure that it reflects the history of the requirement to secure parts of the NETS against a fault outage that takes place during a planned outage (N-1-1 condition). It also proposes a minor housekeeping change to reflect the name change of one Transmission Licensee (SHETL to SHET) in both the NETS SQSS and the corresponding NETS SQSS Industry Governance.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 9 May 2018 where the NETS SQSS Review Panel determined that following the review of a draft paper the modification proposal should proceed directly to Industry Consultation as recommended by the Proposer.</p> <p>Industry Consultation A draft Industry Consultation Document was circulated to the NETS SQSS Review Panel for approval on 1 June 2018. This was then released for Industry Consultation on 25 June 2018 for a period of 20 working days and closed on 20 July 2018.</p> <p>Modification Report The GSR023 Modification Report was submitted to the Authority on 24 August 2018.</p> <p>Authority Decision & Implementation GSR023 was submitted to the Authority for a decision on 24 August 2018. The Authority approved the modification on 2 January 2019. On 16 February 2018, the Authority proposed such a modification to implement GSR018. Due to the upcoming arrival of further SQSS modification proposals, e.g. GSR016, the Authority decided, with the support of the SQSS Panel, to delay the implementation of GSR018 such that multiple SQSS modifications could be implemented simultaneously. The Authority are to shortly consult on a new licence modification proposal in order to implement GSR018, GSR016, GSR023 and GSR024 simultaneously.</p>

SQSS GSR No.	024
Title	National Grid Legal Separation Changes
Proposer	James Martin (NGET)
Submitted	9 May 2018
Modification Description	Progress
<p>The proposal seeks to ensure that the National Grid legal separation changes are updated and reflected in the NETS SQSS and the SQSS Industry Governance Framework. The changes will incorporate the new entity National Grid Electricity System Operator (NGESO).</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 9 May 2018 where the NETS SQSS Review Panel determined that following the review of a draft paper the modification proposal should proceed directly to Industry Consultation as recommended by the Proposer.</p> <p>Industry Consultation A draft Industry Consultation Document was circulated to the NETS SQSS Review Panel for approval on 24 May 2018. This was then released for Industry Consultation on 8 June 2018 for a period of 20 working days and closed on 5 July 2018.</p> <p>Modification Report The GSR024 Modification Report was submitted to the Authority on 24 August 2018.</p> <p>Authority Decision & Implementation SR024 was submitted to the Authority for a decision on 24 August 2018. The Authority approved the changes to the NETS SQSS proposed in GSR024 on 2 January 2019. For these changes to take effect we will need to modify the relevant conditions of the electricity transmission licence so they refer to the new version of the NETS SQSS. On 16 February 2018, the Authority proposed such a modification to implement GSR018. Due to the upcoming arrival of further NETS SQSS modification proposals, e.g. GSR016, the Authority decided, with the support of the NETS SQSS Panel, to delay the implementation of GSR018 such that multiple SQSS modifications could be implemented simultaneously. The Authority intend to shortly consult on a new licence modification proposal in order to implement GSR018, GSR016, GSR023 and GSR024 simultaneously.</p>

SQSS GSR No.	025
Title	Updating the SQSS to reflect the recent modification to Engineering Recommendation P28
Proposer	Rachel Woodbridge-Stocks & Greg Heavens (NGET SO)
Submitted	10 September 2018
Modification Description	Progress
<p>This proposal seeks to modify the NETS SQSS to update the maximum voltage step changes permitted for operational switching to accommodate the modification to Engineering Recommendation P28.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 14 September 2018 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup, subject to ratification of the Terms of Reference.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues. The Terms of Reference have been agreed by the NETS SQSS Review Panel and a Workgroup has been established with Workgroup Meetings in progress. The Draft Workgroup Report is currently being reviewed by the Workgroup.</p> <p>Industry Consultation This proposed NETS SQSS Modification is open for Industry Consultation. Any interested party is able to make a response in line with the guidance.</p> <p>Modification Report The final Modification Report was circulated and no concerns were raised. All Panel members agreed for GSR025 to go to Authority within 5 working days following Panel Meeting on 16 January 2019</p> <p>Authority Decision & Implementation No yet progressed to this stage</p>

Concluded Modifications

SQSS GSR No.	008
Title	Regional Variations and Wider Issues
Proposer	NETS SQSS Review Panel Secretary on behalf of the Three Transmission Licensees (SHETL, SPT and NGET)
Submitted	2008
Modification Description	Progress
GSR008 seeks to undertake a “fundamental review” of the NETS SQSS.	<p>Modification Proposal</p> <p>Workgroup</p> <p>Industry Consultation An Industry Consultation was published on 23 April 2010 with a closing date of 4 June 2010. A number of responses were received.</p> <p>Modification Report A Modification Report has been prepared and submitted to the Authority for a decision.</p> <p>Authority Decision & Implementation GSR008 was submitted to the Authority for a decision on 19 October 2011. The Authority made a decision on 4 July 2016 and the modification was implemented on 8 February 2017.</p>

SQSS GSR No.	010
Title	Review of Onshore Generation Connection Criteria
Proposer	NETS SQSS Review Panel Secretary on behalf of the Three Transmission Licensees (SHETL, SPT and NGET)
Submitted	5 October 2010
Modification Description	Progress
<p>GSR010 was raised to continue the work of Workgroup 2 (WG2) of the fundamental NETS SQSS Review (GSR008) which had been investigating Generation Connection Criteria.</p> <p>Presently the NETS SQSS specifies the same standard of connection for all generators. However, customers can voluntarily opt for a less robust connection if they consider the financial implications of doing so to be favourable, providing they do not adversely affect other users.</p> <p>WG2 considered that providing a firm connection for a small intermittent generator could be uneconomic but that such customers may be nervous to accept a non-standard connection. WG2 therefore proposed a deterministic methodology that specifies different minimum connection robustness for different generator capacities and source-fuel load factors. It was proposed that all tiers of connection would be adequate for the full capacity of generation during system intact conditions but that the different tiers would provide varying levels of capacity following different types of faults. The connection standard would be both a default design and a minimum standard - customers could voluntarily opt for a more robust connection but could not opt for a less robust connection. In other words, a small intermittent generator could still opt to 'upgrade' to a firm connection but a large base load generator could not 'downgrade' to a lower connection standard.</p>	<p>Modification Proposal The Modification Proposal was proposed at the Industry Workshop on 5 October 2010 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate the issues around Onshore Generation Connection Criteria. The Terms of Reference have been agreed by the NETS SQSS Review Panel and the first Workgroup meeting took place in February 2011.</p> <p>Industry Consultation An Industry Consultation was published on 18 June 2012 with a closing date of 17 August 2012. Three responses were received (E.ON, International Power and SHETL).</p> <p>Modification Report The decision was taken at the 1 April 2015 NETS SQSS Review Panel that a Guidance Note shall formally replace any official submission to the Authority to request a change to the NETS SQSS.</p> <p>Authority Decision & Implementation The Guidance Note negates the need for a change to the NETS SQSS and therefore no Authority decision is required. GSR010: Review of Onshore Entry Criteria is therefore considered as concluded and closed and shall be removed from the NETS SQSS Modification Register accordingly.</p>

SQSS GSR No.	011
Title	Review of Offshore Networks
Proposer	NETS SQSS Review Panel Secretary on behalf of the Three Transmission Licensees (SHETL, SPT and NGET)
Submitted	5 October 2010
Modification Description	Progress
<p>GSR011 was raised to develop NETS SQSS criteria applicable to interconnected offshore networks.</p> <p>The current standards provide criteria for radially connected windfarms. However, there is a need for criteria to guide the cost-effective development of interconnected offshore transmission networks suitable for connecting very large wind farms (>1500MW), located far from shore (100-300km), such as those proposed in the Crown Estate's Round 3 programme.</p>	<p>Modification Proposal The Modification Proposal was proposed at the Industry Workshop on 5 October 2010 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate the issues around NETS SQSS criteria applicable to interconnected offshore networks. The Terms of Reference have been agreed by the NETS SQSS Review Panel and the first Workgroup meeting took place in February 2011.</p> <p>Industry Consultation An Industry Consultation was published on 6 August 2012 with a closing date of 1 October 2012. No responses were received, although subsequent discussion with the Authority produced queries which have been worked through ahead of the submission of the Modification Report.</p> <p>Modification Report A revised Modification Report, addressing the queries raised by the Authority, was submitted on 15 May 2013. Further queries were subsequently raised and these continue to be worked through.</p> <p>Authority Decision & Implementation GSR011 was formally re-submitted to the Authority for a decision on 18 August 2014. The Authority made a decision on 4 July 2016 and the modification was implemented on 8 February 2017.</p>

SQSS GSR No.	012
Title	Treatment of Interconnectors
Proposer	NETS SQSS Review Panel Secretary on behalf of the Three Transmission Licensees (SHETL, SPT and NGET)
Submitted	5 October 2010
Modification Description	Progress
<p>GSR012 was raised to consider the appropriate treatment of interconnectors within the NETS SQSS.</p> <p>There are significant new interconnections to external systems currently under construction and more are planned. Interconnectors can result in large changes in flows within short timescales across the transmission system. It is therefore important to understand the implications and means of managing greater interconnection and market coupling with other European nations, including the extent to which interconnector flow can be relied upon to meet demand and avoid constraining generation.</p>	<p>Modification Proposal The Modification Proposal was proposed at the Industry Workshop on 5 October 2010 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate the issues around the treatment of interconnectors within the NETS SQSS. The Terms of Reference were agreed by the NETS SQSS Review Panel and the first Workgroup meeting took place in March 2011.</p> <p>The Workgroup experienced difficulties with obtaining report data and changes in personnel which led to the Workgroup being formally re-established and re-started with new Workgroup leads.</p> <p>Withdrawal The Proposer decided to withdraw this Modification on 09 May 2018. They explained that certain elements of this will be captured and encompassed within GSR022 going forwards.</p>

SQSS GSR No.	014
Title	Offshore Transformer Requirements
Proposer	John Zammit-Haber (NGET)
Submitted	19 November 2012
Modification Description	Progress
<p>GSR014 was raised to investigate whether the current requirements for two transformers and two substation bays where offshore cables connect to the onshore transmission system is necessary or whether two transformers connected to a single bay or even a single transformer and single bay would be sufficient.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 19 November 2012 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate whether to amend the requirement for two transformers and two substation bays where offshore cables connect to the onshore transmission system. The Terms of Reference have been agreed by the NETS SQSS Review Panel and a Workgroup has been established. The Workgroup Report has since been approved at the April 2014 NETS SQSS Review Panel.</p> <p>Industry Consultation An Industry Consultation was published on 13 October 2014 with a closing date of 14 November 2014. Five responses were received (Blue Transmission, DONG Energy, Scottish Power Renewables, Statkraft and National Grid Electricity Transmission).</p> <p>Modification Report A Modification Report was presented to the 5 August 2015 NETS SQSS Review Panel. It was agreed that this should now be submitted to the Authority.</p> <p>The Modification Report was well developed and almost complete however, there were a number of small changes to be made prior to its submission. Due to change of personnel the changes are still outstanding and the Report has not been submitted to the Authority.</p> <p>The Authority has advised that due to 2 years passing since the CBA was completed; a new CBA would be required before the modification could be submitted for decision.</p> <p>Withdrawal The SQSS Review Panel voted to withdraw this Modification on 14 June 2017.</p>

SQSS GSR No.	015
Title	Normal Infeed Loss Risk
Proposer	Graham Stein (NGET)
Submitted	27 May 2013
Modification Description	Progress
<p>GSR015 was raised to amend the GSR007 requirement to contain a loss of up to 1320MW to the normal infeed loss criteria of -0.5Hz in operational timescales from 1 April 2014 onwards, without restricting new connection activity.</p> <p>The proposed change would therefore avoid an increase in costs incurred to procure additional frequency response. If the change is not made, these costs will be incurred in the absence of any actual change in the risk of frequency deviation below 49.5Hz.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 5 June 2013. Further comment was invited from NETS SQSS Review Panel Members. It was agreed that the Modification Proposal will not progress to a Workgroup but straight to Industry Consultation.</p> <p>Workgroup A Workgroup was not established for GSR015.</p> <p>Industry Consultation An Industry Consultation was published on 11 November 2013 with a closing date of 6 December 2013. Three responses were received (EDF Energy, National Grid Electricity Transmission and Scottish and Southern Energy).</p> <p>Modification Report A Modification Report that summarises the Industry Consultation responses has been produced and submitted to the Authority for a decision.</p> <p>Authority Decision & Implementation GSR015 was initially submitted to the Authority for a decision on 10 March 2014. The Authority responded with a number of questions. These were addressed and GSR015 was formally re-submitted to the Authority for a decision on 13 August 2014. The Authority approved GSR015 on 3 December 2014. However, for these changes to take effect, the Authority will need to modify the electricity transmission licenses so that they refer to the new version of the NETS SQSS. Since this modification is not considered to be time-critical, the Authority has not yet issued a statutory consultation to modify the licenses. The Authority will do this at an appropriate stage in the future.</p> <p>The Authority made a decision to implement this modification alongside GSR008 and GSR011 on 8 February 2017.</p>

SQSS GSR No.	017
Title	Treatment of Switch Faults in Operational Timescales
Proposer	Ben Marshall (NGET)
Submitted	5 February 2014
Modification Description	Progress
<p>Under the current version of the NETS SQSS, switch faults are secured for new generation connections but only with respect to limiting the loss of power infeed to the infrequent infeed loss risk. Switch faults can potentially cause wider system issues such as instability, system splits, cascade tripping and voltage collapse depending on the substation at which they occur, the network running arrangement and the generation and demand levels at the time of the fault.</p> <p>GSR017 will therefore undertake a review of the current NETS SQSS and will determine the need case for securing against the above challenges in the event of switch faults in operational timescales.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 5 February 2014 where the NETS SQSS Review Panel determined that the Modification Proposal will progress to a Workgroup, subject to ratification of the Terms of Reference.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues. The Terms of Reference have been agreed by the NETS SQSS Review Panel and a Workgroup has been established.</p> <p>Due to the complex issues this Workgroup is investigating, they are not expected to report back to the NETS SQSS Review Panel in 2015. A withdrawal paper was submitted to Panel on 8 February 2017 and subsequently this Modification has been withdrawn.</p> <p>Industry Consultation GSR017 did not progress to this stage.</p> <p>Modification Report GSR017 did not progress to this stage.</p> <p>Authority Decision & Implementation GSR017 did not progress to this stage.</p>

SQSS GSR No.	019
Title	Review of Chapter 7 Double Busbar Requirements
Proposer	Gareth Parker (DONG Energy)
Submitted	2 April 2014
Modification Description	Progress
<p>DONG Energy suggests 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. DONG Energy therefore proposes 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.</p>	<p>Modification Proposal</p> <p>The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 2 April 2014 where the NETS SQSS Review Panel determined that the Modification Proposal required further consideration at a dedicated Workshop that was scheduled for 23 May 2014.</p> <p>Workgroup</p> <p>Following this Workshop, the NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues further. The Terms of Reference were approved at the 4 June 2014 NETS SQSS Review Panel and a Workgroup has been established.</p> <p>Following a review at the Panel held on 5 October 2016 this this modification was re-tabled for an update to be given at the next Panel meeting on 5 December 2016. 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.</p> <p>Withdrawal</p> <p>The SQSS Review Panel voted to request withdrawal of this Modification on 14 June 2017. Consequently the Modification was withdrawn by the Proposer.</p>

SQSS GSR No.	020
Title	Modification of Clause 7.8.1.1 to Allow Single Transformer Offshore Substations of Capacity Greater Than 90MW
Proposer	Nigel Platt (Siemens Power Transmission)
Submitted	27 October 2014
Modification Description	Progress
Siemens, along with other manufacturers, are developing new systems to provide lower cost export of offshore wind farm power to shore. A common feature of these systems is the simplification of the offshore equipment and in particular a reduction in the number of transformers on each offshore installation. Siemens propose that current interpretation of the NETS SQSS prevents the use of single transformer installations at power levels above 90MW and that this is hampering the introduction of these lower cost solutions. Siemens have therefore requested a review of the relevant sections of the NETS SQSS to allow the compliant use of these new, lower cost solutions.	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 3 December 2014 where the NETS SQSS Review Panel determined that the Modification Proposal required further consideration and that a Workgroup should be established.</p> <p>Workgroup The NETS SQSS Review Panel determined that a Workgroup was required to investigate these issues. The Terms of Reference were approved at the 1 April 2015 NETS SQSS Review Panel and a Workgroup has been established. The first Workgroup meeting was held on 5 June 2015.</p> <p>Industry Consultation GSR020 has not yet progressed to this stage.</p> <p>Modification Report The decision was taken at the 7 October 2015 NETS SQSS Review Panel that an Open Letter and Guidance Note clarifying the relevant sections of the standards shall formally replace any official submission to the Authority to request a change to the NETS SQSS.</p> <p>Authority Decision & Implementation The Open Letter and Guidance Note negates the need for a change to the NETS SQSS and therefore no Authority decision is required. GSR020: Modification of Clause 7.8.1.1 to Allow Single Transformer Offshore Substations of Capacity Greater Than 90MW is therefore considered as concluded and closed and shall be removed from the NETS SQSS Modification Register accordingly.</p>

SQSS GSR No.	021
Title	Operational and Planning Criteria for 220kV Transmission Assets
Proposer	Bless Kuri (SHE Transmission)
Submitted	4 February 2015
Modification Description	Progress
<p>The first 220kV assets will shortly be introduced onto the National Electricity Transmission System (NETS) with the commissioning of the Kintyre-Hunterston subsea AC link that shall consist of two 220kV subsea cables between Crossaig on the Kintyre peninsula and Hunterston.</p> <p>This proposal therefore seeks to modify the NETS SQSS to adopt the 275kV planning and operational voltage limits for 220kV and to modify the defined term “supergrid” to include 220kV by aligning this with the Grid Code definition which considers any voltage above 220kV as a supergrid voltage.</p>	<p>Modification Proposal The Modification Proposal was proposed at the NETS SQSS Review Panel meeting on 4 February 2015.</p> <p>Workgroup The NETS SQSS Review Panel was of the opinion that a Workgroup was not required to progress this Modification Proposal. However, a detailed impact assessment was requested. This was completed by Bless Kuri and presented at the 1 April 2015 NETS SQSS Review Panel.</p> <p>Industry Consultation A draft Industry Consultation Document was presented at the 3 June 2015 NETS SQSS Review Panel. This was released for Industry Consultation on 21 September 2015 for a period of 20 working days closing on 16 October 2015. One response (Vattenfall) was received.</p> <p>Modification Report The Modification Report was presented and approved at the 2 December 2015 NETS SQSS Review Panel.</p> <p>Authority Decision & Implementation GSR021 was formally submitted to the Authority for a decision on 23 December 2015. The Authority rejected the modification on 01 July 2016.</p>