

## Meeting minutes

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

#### SQSS Panel

**Date:** 13/12/2021      **Location:** Microsoft Teams

**Start:** 11:00 AM      **End:** 12:30 PM

#### Participants

Attendee		Attend / Regrets
Jennifer Groome	National Grid Electricity System Operator (NGESO) Code Administrator	<b>Attend</b>
Rashpal GataAura (RGA) Panel Secretary (Alternate)	National Grid Electricity System Operator (NGESO) Code Administrator	<b>Attend</b>
Alan Creighton (AC)	Network Operator	<b>Attend</b>
Bieshoy Awad (BA)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>
Bless Kuri (BK)	Scottish Hydro Electric Transmission (SHET)	<b>Attend</b>
Cornel Brozio (CB)	Scottish Power Transmission (SPT)	<b>Attend</b>
David Lyon (DL)	Offshore Transmission Owner (OFTO)	<b>Attend</b>
Can Li (CL)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>
Mike Lee (ML)	Offshore Transmission Owner (OFTO)	<b>Attend</b>
Rob Wilson (RW)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>
Xiaoyao Zhou (XZ)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>
Roddy Wilson (RWI)	Scottish Hydro Electric Transmission (SHET)	<b>Attend</b>
Simon Lord (SL)	Generation Representative	<b>Attend</b>
Patrick McNabb (PMcN) (Presenter)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>

Matthew Magill (MM)	National Grid Electricity System Operator (NGESO)	<b>Attend</b>
Neil Adams (NA)	National Grid Electricity System Operator (NGESO) (Observer)	<b>Attend</b>
Shilen Shah (SS)	Authority Representative	<b>Attend</b>
Ayman Attya (AA)	National Grid Electricity System Operator (NGESO) (Observer)	<b>Attend</b>
William Kirk-Wilson	National Grid Electricity System Operator (NGESO)	<i>Regrets</i>
Ian Ascroft (IA) Panel Chair	National Grid Electricity System Operator (NGESO)	<i>Regrets</i>
Robert Westmancoat (RWC) (Observer)	National Grid Electricity System Operator (NGESO)	<i>Regrets</i>
Rachel Beaufoy (RB)	National Grid Electricity System Operator (NGESO)	<i>Regrets</i>
Diyar Kadar (DY)	Scottish Power Transmission (SPT)	<i>Regrets</i>
Gurpal Singh (GS)	Authority Representative	<i>Regrets</i>

## Discussion and details

### 1. Introductions and apologies

The Chair opened the Panel meeting by making introductions and noted the apologies received.

### 2. Approval of Panel Minutes from the Panel in October 2021

Panel Members approved the minutes for the previous Panel meeting on 20 October 2021. These are also available on the National Grid ESO website:

<https://www.nationalgrideso.com/industry-information/codes/security-and-quality-supply-standards-old/meetings/sqss-panel-meeting-12>

### 3. Actions Log

The Panel reviewed and updated the open actions, on the Actions Log.

### 4. Standing items/impacts from other work

#### a) Chapter 7: Guidance Document

- This action is now complete and this item will be removed from the agenda.

#### b) Energy Code Reform

- The consultation has now closed. An update is expected in the New Year.

#### c) Review of Modification Register

- No open modifications.

### 5. SQSS Review

- In their RII02 Delivery Schedule, the ESO has committed to the following deliverable: D12.1 SQSS has been updated to ensure it is designed to enable decarbonisation of the electricity system.
- CL summarised the SQSS Review Milestones for 2021/2022 and 2022/2023.
- 2021/2022 milestones were to publish a prioritised list of issues to be addressed and an action plan.
- 2022/2023 milestones were on delivery of initially the quick wins and initiation of actions on broader topics.

### SQSS Review Potential Topics

- CL proceeded to present the seven main topics advising that on:
- **Chapter 4 – Main Interconnected Transmission System**  
Review needs to be undertaken on the ‘Security and Economy Backgrounds’ along with discussions regarding interactions between NOA and SQSS chapter 4.
- **Chapter 7 – Offshore Transmission system.**  
Discussions are continuing regarding the removal of 1320MW limits for DC Converters and what the new limit could be for the new convertors.
- Offshore coordination work is continuing and any future changes proposed from that piece of work will require facilitation of the implementation.
- **Chapter 5 – Operation standards in England and Wales**  
The question here is whether these can be relaxed to match Scotland to see what the risks and benefits will be.
- **Chapter 3 – Demand Connection Criteria**  
This is in alignment with P2 where some revisions have been done and the request is for SQSS to reflect the changes to keep consistency.
- **Chapter 2 – Generation Connection Requirements**  
The Loss of Outfeed Risk is currently not defined in SQSS and this needs clarification, and that Interconnectors and Storage are also not specifically defined in Chapter 2.
- **CATOs**  
When these come into place clear definition is required regarding the criteria to be observed in SQSS.
- **Governance**  
The team are looking at how SQSS can be made more dynamic and how can implementation of change be made post modifications that could reflect the current energy landscape.

CL presented the timeline for the next two years and their action plan regarding the three quick win items identified.

First to be worked on will be the Loss of infeed risk for the Offshore DC Converters, then Generation Connection Criteria followed by Demand Connection Criteria – P2 alignment.

Wider plans need to be worked on the more complex topic of Chapter 4 MITS – NOA, which will need to be scoped in SQSS. The remaining topics are listed in priority order in line with information currently available. However, should anything change following the Energy Code Reform, or if CATO is introduced earlier then this will be reflected in line with the urgency and importance of these topics. Details are available within the [Panel Papers](#).

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AC stated that the SQSS Governance process can take a long time, and industry resource is constrained. He questioned what was in place to overcome potential time delays and resource constraints.

CL responded that majority of the work is being looked at to be addressed more efficiently. The team were looking carefully to progress the work as quickly as possible and simultaneously to minimise the effect on the industry resources whilst ensuring minimal pressure on the stakeholders. The NGESO will ensure there is sufficient resource to cover this work.

BK pointed out that it was not the governance that slowed the process down, but lack of available resource available for the workgroups to get the right people together to progress the work.

AC stated that whilst there are some quick wins, the work involved is complex.

BA responded that when the modification is started, the scope will be made very clear and specific, which will keep the Workgroup's agenda focussed.

SL stated that Chapter 2 did not seem to be a quick win. The comparison between a large power station where the connection would be very strong and smaller power station the connection would be quite weak, this would affect the compensation. It would be unreasonable to expect a smaller generator to have no compensation for disconnection whereby a larger generator would and the SQSS seems discriminatory here.

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## 6. **FRCR v2022**

### **Frequency Risk and Control Report (FRCR) 2021 Implementation & 2022 Scope**

MM gave the Panel some background on FRCR saying that following the event of 9 August 2019 SQSS modification GSR027 had been raised to introduce the new Frequency Risk and Control Report.

Scope here was that the first edition of the FRCR focused on some key areas:-

- Establishing the FRCR process to deliver a clear, objective, transparent process for assessing reliability vs cost to ensure the best outcome for consumers.
- Assessing the risk from the inadvertent operation of Loss of Mains protection.
- Identifying quick, short-term improvements for reliability vs cost, including:
  - Delivery of the Dynamic Containment and Accelerated Loss of Mains Change Program.
  - Assessing the frequency standard that various size loss risks are held to, and
  - The impact of transmission network outages on radial connection loss risks.

Implementation of FRCR 2021 was undertaken in two phases:

#### **Phase 1 – 25<sup>th</sup> May 2021**

- Removing the tighter frequency limit of 49.5Hz for smaller infeed losses
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- *only applying the wider limit of 49.2Hz for up to 60 seconds to all BMU-only infeed losses*
- No longer taking additional bids/offers on events re-categorised as BMU+VS events
  - *i.e. network faults like double circuits and single circuits*

### Phase 2 – 7<sup>th</sup> Oct 2021

- Allow BMU-only infeed loss risks to cause a consequential RoCoF loss, if the resulting loss can be contained to 49.2Hz and 50.5Hz

MM referred to the dramatic effect of the amount of intervention that has been carried out in the market to manage these costs was shown on the slide which can be viewed by following this [link](#).

MM told the Panel that the implementation included allowing consequential RoCoF events to occur if total BMU-only + RoCoF loss can be contained to within 49.2Hz.

PMcN continued the presentation clarifying the Definition of Simultaneous Event. He told the Panel that this had been broken down into three parts – criteria, definition and impact, full details are contained in the [Panel Papers](#).

In summary FRCR 2021 policy achieves a 1-in-22 year risk of a 49.2Hz event corresponding to a 1-in-270 year risk of an LFDD event.

The aim is to fully mitigate all BMU-only risks using response as this was seen as generally better value and reduced market intervention by the ESO.

PMcN advised the Panel that using 2019 data as a representative year current policy would result in 78% of settlement periods where at least the 75% largest simultaneous events would be secured to 49.2Hz.

PMcN continued that on DC requirements for Simultaneous Events the current DC market size is 900MW and covers the current peak loss (including RoCoF).

Covering the largest simultaneous event would require a DC market **THREE** times as large as the current market (0-900MW) and the implications of growing a market to 2.7GW were:

- >2.7GW required for competition
- Impact on other markets like BM, wholesale, arbitrage, FFR
- More reserve required to manage losses and reserve for response
- Stability concerns i.e. DC interaction with DM, too much DC behind constraints, barrier to entry for GSP groups

RW presented the final slide on FRCR v2022 showing the comparison between FRCR v2021 and v2022 provisional roadmap. A combined consultation for methodology and draft report were envisaged for provisional delivery on 1 April 2022.

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## 7. Code Administrator Update:

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- **Deliverable Plan Update and Stakeholder Feedback**

JG provided the results on Code Administrator 2021/2022 ESO Customer Satisfaction Survey which was conducted in September 2021.

Stakeholders had noted the improvements made over the last two years, specifically mentioning the improvements in the organisation, efficiency of Grid Code Panel meetings, good email communication and answers to queries.

The survey highlighted whilst given the resource levels, the Code Administrator team do a fantastic job, there was still room for improvements such as more clarity on written materials and the use of acronyms in reports. More clarity could be given to the impacted parties and also there were occasions when meetings were double booked.

JG confirmed this feedback had been taken on board and had already been on the Code Administrator's improvement plans.

Results of the CACoP survey ran recently by Ofgem on performance of all the codes administrators would shortly be available and this feedback too will be built into the Code Administrators Deliverable Plan.

- JG advised the Panel that a [summary document](#) was published in May 2021 on back of a survey conducted by the Code Administrator team in 2020 which set out the key areas planned to focus on in 2021-22. The Code Administrator team made a commitment to making incremental improvements and continue to build into the plan further feedback received. For further details on this plan which is broken up into six segments and the Forward Plan please see the slides within the [Panel Papers](#).
- JG advised the Panel that the first area of improvements was the upskilling and recruitment. A Code Administrator workshop was held on 6 December 2021 where the new team members were introduced outlining who does what and who was best to be contacted for different subject matters. The slides and the recording are available on the website and the link would be dropped into the meeting chat for interested parties.

JG went through the other areas which the Code Administrator were also working on – collaboration, better sight of cross-code impacts, diversity and equality, rationalisation and digitalisation and invited feedback and thoughts to enable improvement – full slides available within the [Panel Pack](#).

AC questioned whether the gendered language would be or has been looked at in SQSS.

JG confirmed that STC and SQSS will be looked at to make the language gender neutral.

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## 8. AOB

### CACoP Website

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- JG advised the Panel that the new [CACoP Website](#) had been launched where stakeholders could get all the latest information related to CACoP and all the latest versions of the CACoP products could be found in one central place. Previously these were stored across the websites of the various different codes. Other information available on the website was:

**The Code Administration Code of Practice** – the set of principles that the Code Administrators agree to uphold

**The Central Modifications Register** – the consolidated record of all live industry code changes

**The Horizon Scanner** – a forward look at what could impact our industry codes in the medium/long-term

**CACoP issued guidance** – any information that has been published to support parties navigating our codes. [Industry Codes Meeting Calendar](#) where information can be accessed when the meetings are happening across the industry. [CACoP newsletter](#). The latest and historic versions of the CACoP newsletter.

Should there be any feedback this would be welcomed directly to Jennifer Groome which she will then feedback to the Forum.

#### **2022 Panel Dates**

- An update on Panel dates for 2022 was provided and the Panel were advised that these dates were provisional placeholders and could be changed if required.

#### **Key Dates**

- The next SQSS Panel meeting is scheduled to take place on:  
**12 January 2022 (could potentially be March 2022)**
  - Papers Day for the next SQSS Panel meeting is:  
**4 January 2022**
  - The SQSS Modification Submission deadline for the next Panel is:  
**21 December 2021**
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