

## Meeting minutes

### Grid Code Review Panel

<b>Date:</b> 30/05/2019	<b>Location:</b> Faraday House and Webex
<b>Start:</b> 10:00	<b>End:</b> 14:00

### Participants

Attendee	Attend/Regrets	Attendee	Attend/Regrets
Trisha McAuley, Chair (TM)	Attend	Jeremy Caplin, BSC Representative (JC)	Attend
Paul Mullen, Code Administrator Representative (PM)	Attend	Damian Jackman, Generator Representative (DJ)	Attend
Matthew Bent, Technical Secretary (MB)	Attend	Graeme Vincent, Network Operator Representative Alternate, (GV)	Attend
Robert Longden, Suppliers Representative (RL)	Attend	Tony Johnson, National Grid Electricity System Operator Representative Alternate (TJ)	Attend
Joseph Underwood, Generator Representative (JU)	Attend	Gurpal Singh, Authority Representative (GS)	Attend
Alastair Frew, Generator Representative (AF)	Attend	Nadir Hafeez, Authority Observer (NH)	Attend
Guy Nicholson, Generator Representative (GN)	Attend	Greg Heavens, Presenter item 6 (GH)	Attend
Chris Smith, Offshore Transmission Representative (CS)	Attend	Chrissie Brown, Presenter item 9 (CB)	Attend
Richard Woodward, Onshore Transmission Representative Alternate (RM)	Attend	Rachel Hinsley, Presenter item 18 (RH)	

## Discussion and details

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### 1. Welcome and introductions

7158 TM opened the Grid Code Review Panel ('the Panel') meeting with introductions and acknowledged the advance apologies received from the following Panel members:

- Colm Murphy (alternate Tony Johnson)
- Alan Creighton (alternate Graeme Vincent)
- Ross McGhin (alternate Richard Woodward)
- Steve Cox

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### 2. Minutes of the Panel meeting held 28 March 2019

7159 The Panel agreed that the minutes from the Panel held on 25 April 2019 are approved as a correct record of the meeting subject to clarification amendments raised by AF.

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### 3. Review of the Action within Action Log

#### Action 213

7160 PM informed the Panel that this action is ongoing, and a cross code presentation is being drafted for both the Connection User of the System Code (CUSC) Panel and the Grid Code Review Panel about the changes made. This presentation will be presented in June 2019.

7161 The Panel agreed to keep this action open until June 2019.

#### Action 214

7162 PM informed the Panel that the modification being raised by National Grid ESO was due to be raised in June, but due to the Emergency & Restoration modifications being raised with a compliance date of 18 December 2019 the house keeping modification will be raised in July.

7163 TJ confirmed that the draft legal text for the house keeping modification will be circulated before the modification is raised.

7164 The Panel agreed to keep this action open until July 2019.

#### Action 219

7165 PM informed the Panel that an update will be provided as part of agenda item 19.

7166 The Panel agreed to close action 219 following the update provided later in the agenda.

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Action 220

7167 PM informed the Panel that this action will be covered in agenda item 9.

7168 The Panel agreed to close action 220 following the update being provided later in the agenda.

Action 222

7169 PM informed the Panel that the timeline is still being developed and the action would need to stay open.

7170 GH informed the Panel that progress is taking place on the timeline, and he is awaiting the project team to provide an update to allow the timeline to be completed

7171 The Panel agreed to keep action 222 open and for National Grid ESO to provide an update for the June Panel meeting.

Action 223

7172 PM informed the Panel that this work is being developed as part of the Workgroup discussions

7173 MB informed the Panel that the action should still stay open until the Workgroup has further developed the impacted parties.

7174 The Panel agreed to keep action 223 open, and for MB to provide an update at the June Panel meeting.

Action 231

7175 PM informed the Panel that this action is still being developed by the Workgroup, and asked the question of Panel if this action should be closed and allow the Workgroup to complete it.

7176 The Panel agreed to close action 231.

Action 232

7177 PM informed the Panel stated that this action is still being completed by the National Grid ESO.

7178 The Panel agreed to keep action 232 open and for National Grid ESO to provide an update for the June panel meeting.

Action 233

7179 PM informed the Panel that the Code Administrator included in the nomination email for GC0127 the impacted parties, and that action 233 should be closed.

7180 The Panel agreed to close action 233.

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Action 234

- 7181 PM informed the Panel that that work is still on-going and the cross-code impact is being developed by the Workgroup and stated the action should be closed.
- 7182 The Panel agreed to close action 234.

Action 235

- 7183 PM informed the Panel that the outcome of this action will be clearer once the code mapping process is completed by National Grid ESO .
- 7184 AF queried if this was included in the System Defence Plan and confirmed it looks like it is covered within this.
- 7185 The Panel agreed to close action 235.

Action 236

- 7186 PM informed the Panel that further work is required to investigate if Article 48 is still required and relevant.
- 7187 PM said further investigative work is needed to be completed to consider this as part of the scope of modification GC0128.
- 7188 RW queried if the scope is the proposer's call, and if the proposer wants to change the scope of GC0128 then can this be done. RW stated It would be clearer for the proposer to review and change the scope in the proposal form.
- 7189 TJ stated that this decision hinges on the code mapping process and once completed it will be clear if a scope change is required.
- 7190 The Panel agreed to keep action 236 open until the code mapping work has been completed, and for National Grid ESO to provide an update for the June panel meeting.

Action 237

- 7191 PM confirmed that he was still reviewing the governance rules and would provide The Panel with an update after the meeting.
- 7192 The Panel agreed to keep this action open until an update has been provided. *Post Meeting Note: Update provided 31 May 2019 clarifying that as long as between the nominated party and the nominated alternate, they attended 50% of workgroup meetings, either 1 of these parties can vote.*

Action 238

- 7193 PM informed the Panel the consultation was sent out on the 10 May 2019.
- 7194 The Panel agreed to close action 238.

Action 239

- 7195 CS informed the Panel that he did email Rob Wilson but feels further work needs to be developed offline.
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7196 The Panel agreed to close action 239.

Action 240

7197 AC had circulated the referenced email to Panel members following the April 2019 meeting.

7198 The Panel agreed to close action 240.

Action 241

7199 PM informed the Panel that the Horizon scan has been updated in the presentation pack.

7200 The Panel agreed to close action 241.

Action 242

7201 PM informed The Panel that further work is required on identifying who is required to be contacted.

7202 The Panel agreed to keep action 242 open, and asked the Code Administrator to provide an update at the June Panel meeting.

Action 243

7203 PM informed the Panel that Joseph Henry will be bringing the Plan on a Page (POAP) document to the June Panel meeting as further development work is needed.

7203 The Panel agreed to keep action 243 open and asked Joseph Henry to bring an update to the June Panel meeting.

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#### 4. Chairs Update

7204 TM informed the Panel that she had no update to provide.

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#### 5. Authority Decisions

7205 GS informed the Panel that Ofgem had published two decisions in relation to Grid Code modifications GC0118 and GC0114; the outcome of the decisions was that they approved both modifications and they should be implemented.

7206 AF queried in relation to GC0114 that there was an indicative timescale in the Modification Report for when parties need to pre-qualify and is timescale still applicable for this year in relation to project TERRE? GH stated that this was correct, and that he believed applications to change existing services to Specific Products have been sent to the Authority for approval, but would confirm.

7207 **ACTION 244:** National Grid ESO to confirm that the specific products for submissions have been sent to Ofgem and if not when they are expected to be sent to Ofgem.

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**6. New Modification**

7208 GC0129 – Updating references to Engineering Recommendation G5

7209 GH presented the GC0129 modification proposal to the Panel.

7210 GH stated that GC0129 looks at the harmonic standard in relation to connecting to the network, and replaces references from G5/4 to G5/5.

7211 GH stated that that GC0129 could be a fast track modification; however taking into account Ofgem's views for receiving all information in relation to modifications affecting cross codes in one package, GH proposed that GC0129 should be subject to standard governance, without an Workgroup.

7212 RW stated that the definition will be the only change for GC0129 so proposed for the future that when further revision changes are made these can be done under the fast track housekeeping governance route.

7213 GS queried where is the Distribution Code up to and has a modification been raised on the distribution side. GH informed the Panel that the Distribution Code consultation has taken place, however one final meeting has been arranged on the 7 June for the Distribution Code to finalise the G5/5 document.

7214 GH stated that he would prefer the Grid Code modification GC0129 was put on hold before off going to Code Administrator Consultation until the G5/5 document has been made final.

7215 GN also raised concerns about raising a modification without knowing what the final document looks like. GN stated that he understood that the G5/5 document went to consultation and that the Distribution Code may take some time to resolve any comments they receive.

7216 GH agreed with the points GN had raised but explained that the modification had already been raised ahead of the Distribution Code planning in a final meeting to finalise the document.

7217 RW asked GH if he would change the governance route if the final document is ready to make minor amendments and highlighted that Grid Code parties could respond to the response on the Distribution Code modification.

7218 The Panel agreed that GC0129 modification does not meet the self-governance criteria and should follow the standard governance route. The Panel agreed that no Workgroup is required and GC0129 should proceed to Code Administrator Consultation once the Distribution Code solution has been agreed.

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## 7. In Flight Modification Updates

- 7219 PM highlighted that he had added in a traffic light system against each Modification and the blockers slide will support this categorisation.
- 7220 GC0127: EU Code Restoration – Requirements resulting from System Defence Plan  
GC0128: EU Code Emergency and Restoration – requirements resulting from System Restoration Plan  
GC0125: EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors
- 7221 PM provided a combined update to the Panel as GC0127, GC0128 and GC0125 are all linked to the Emergency & Restoration Code.
- 7222 PM informed the Panel that the Workgroup reports were due to be brought to the July panel meeting, however due to the extensive work the Workgroups are undertaking there is an extension request to bring the reports to the August Panel meeting.
- 7223 The Panel agreed the extension request to bring the Workgroup reports to the August panel meeting.
- 7224 DJ queried if the mapping exercise needed to be completed before National Grid ESO can notify the SGUs. GH stated that the mapping exercise had already taken place previously and that TJ is only to further clarify the work that was already undertaken. PM added that an action had been taken at 1<sup>st</sup> workgroup on 29 May to confirm approach for notification.
- 7225 GS asked when the mapping exercise is being completed are there any Ofgem representatives involved and asked National Grid ESO to keep Ofgem aware of this updated mapping exercise.
- 7226 **ACTION 245:** National Grid ESO to keep Ofgem aware of this updated mapping exercise in relation to the E&R mods.
- 7227 GC0123: Clarifying references to NGET and Relevant Transmission Licensees
- 7228 PM informed the Panel that the Code Administrator had initially faced quoracy issues with forming a Workgroup. GC0123 has had two requests for nominations issued to seek industry participation.
- 7229 PM informed the Panel that GC0123 has now reached the level of quoracy required to hold a Workgroup meeting. The next Workgroup meeting has been scheduled for 12 June 2019 and the timetable will be agreed at this workgroup meeting.
- 7230 GC0109: The open, transparent, nondiscriminatory and timely publication of the various GB electricity Warnings or Notices or Alerts or Declarations or Instructions or Directions etc., issued by or to the Network Operator(s).
- 7231 PM informed the Panel that Workgroup is progressing the solution as per the agreed timetable.
- 7232 GC0107 - The open, transparent, non-discriminatory and timely publication of the generic and/ or PGM specific values required to be specified by the relevant TSO(s) and / or relevant system operator et al., in accordance with the RFG.  
GC0113 - The open, transparent, non-discriminatory and timely publication of the generic and user specific values required to be specified by the relevant TSO(s) and / or relevant system operator et al., in accordance with the DCC.
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- 7233 PM informed the Panel that this modification is not on track to meet its agreed timetable and a new timetable will be agreed at the next workgroup meeting on 19 June 2019.
- 7234 GC0117: Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements.
- 7235 PM informed the Panel that this modification is not on track to meet its agreed timetable and a new timetable will be agreed at the next workgroup meeting on 10 July 2019. This is due to complexity and TJ stated how complex the modification is and how important this work has become.
- 7236 PM informed the Panel that National Grid ESO are working on a Cost Benefit Analysis and this is still being developed.
- 7237 PM stated that the Open Networks forum have been involved in the process and that Matthew White has agreed to join the workgroup to aid consistency between the two groups.
- 7238 GC0105: System Incidents Reporting
- 7239 PM informed the Panel that an extension request is requested until August 2019 due to quoracy issues.
- 7240 The Panel agreed the extension request.
- 7241 GC0126: Implementing Profiled Stable Import and Export Limits, and reversing unimplemented aspects of GC0068
- 7242 PM informed the Panel that the Code Administrator has undertaken two requests for Workgroup nominations requests, and currently only 1 Workgroup member has come forward. The Code Administrator has confirmed to look at quoracy as a whole as it is causing issues in the code modification processes.
- 7243 **ACTION 246:** Code Administrator to look into quoracy as a whole and present back to Panel a cross code view on what can be done to resolve this barrier.
- 7244 PM stated that an approach to implement the 2 elements of the Electricity Balancing System proposed by GC0126 had been agreed with Ofgem; however in light of quoracy issues Jon Wisdom from National Grid ESO will be contacting Ofgem to discuss next steps.
- 7245 GH stated that this discussion ties into a larger piece of work in co-ordination with the BSC team, any information that comes out of the discussions will be shared with the Grid Code Review Panel.
- 7246 AF stated that GC0126 links back to a previous Grid Code modification, and GC0126 is reversing bits of it, and the reason it has not being implemented is due to National Grid ESO resources, and the resources for implementation is not in the workgroup's control.
- 7247 JU queried whether the Code Administrator had done everything in speaking to people to gather further interest and offered to reach out to Energy UK members. DJ stated that it would help in the Energy UK communication to better explain how the modifications impact parties.
- 7248 JC asked for the Code Administrator to keep Elexon informed on any progress made and what the outcome of
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the Ofgem discussion is.

- 7249 **ACTION 247:** Code Administrator to provide Energy UK with an email to send out to seek further nominations for GC0126
- 7250 **ACTION 248:** Code Administrator to contact Ofgem to discuss GC0126 quoracy issues.
- 7251 DJ queried can you have different people from different entities within the same organisation in the same workgroup. MB confirmed that the Code Administrator is looking into this query offline and will provide the Panel with an update.
- 7252 **ACTION 250:** Code Administrator to provide the Panel with an update on different people from different entities within the same organisation being involved in the same Workgroup.
- 7253 RW queried if quoracy issues are being seen across other codes. PM confirmed that other Code Administrators are facing the same issues.

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## 8. Discussion on Prioritisation

- 7254 The Panel agreed with the current prioritisation of existing modifications. The Panel agreed that GC0129 has no Workgroup and therefore does not need to be considered in the prioritisation stack.
- 7255 RW stated that he feels some criterion are missing on the prioritisation assessment and agreed to propose a revised approach to consider.
- 7256 **ACTION 250:** RW to propose revised approach for Panel to consider re: prioritisation
- 7257 **ACTION 251:** Code Administrator to send out the prioritisation spreadsheet to the Panel Members. *Post Meeting Note: Issued 31 May 2019*
- 7258 TM highlighted that the prioritisation stack contains principles for guidance, the agreement from both Grid Code and CUSC panels is that this is used for guidance, and if it comes a time where the work cannot take place then the Code Administrator will provide feedback.
- 7259 TM stated that it provides industry with a view in saying what is important and why. The Prioritisation spreadsheet gives you the further information, the prioritisation stack is the ownership of the Panels, and the Panel needs to support the Code Administrator in providing better information.

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## 9. Draft Final Modification Reports (DFMR)

- 7260 GC0111 - Fast Fault Current Injection specification text
- 7261 PM presented the slides in relation to GC0111, highlighting that no workgroup consultation took place, and two responses were received during the Code Administrator Consultation.
- 7262 PM stated that GC0111 is under the Self-Governance route and following the Panels vote will go to appeal.
- 7263 The Panel undertook their determination vote and unanimously agreed that the original better facilitates the Grid Code objectives.
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- 7264 AJ stated that he would like to thank the workgroup for the work that has taken place in bringing the GC0111 modification to a close.
- 7265 GC0124 - Critical Friend review period for submission of new modifications
- 7266 TM made reference to the email received from Lisa Waters that PM had circulated.
- 7277 CB presented the slides for GC0124, explaining that any amendments to legal text cannot be made on self-governance modifications.
- 7278 CB highlighted that a CUSC mod and System Transmission Code modification had also been raised to ensure all the codes are aligned. CB stated that she was aware of the email that was sent by Lisa Waters and acknowledges the response from the Flexible Generators Group.
- 7279 TM stated that she and the Panel members have seen and accept the FGG response and understand its importance.
- 7280 JU stated that it would be clearer on the presentation to make it clear where the response has come from a person representing a number of parties.
- 7281 CB stated that GC0124 received two responses from the Code Administrator Consultation with some recommendations from SSE. CB agrees with the recommendations and commits to including these within the final report.
- 7282 CB stated that she accepts Ofgem's guidance of modifications going through in a timely manner. CB stated she sees it as more work up front is less time in workgroups which makes the process shorter for code modifications.
- 7283 TM queried if this issue was raised as part of the customer journey which stakeholders have been involved in. CB confirmed that it was a resultant from the customer journey work, and she had also attended the Joint European Stakeholder Group and the Grid Code Development Forum before the modification was raised.
- 7284 TM highlighted that the response from the Flexible Generation Group identifies a need for a level playing field and transparency, and potentially this modification brings barriers for stakeholders raising modifications. CB states has escalated this response to Gareth Davies to contact the Flexible Generation Group to explain the meaning behind the modification
- 7285 DJ stated it is not clear on what the impact is, and potentially the modification needs updating to show that the critical friend role is helping tease out the impact on stakeholders. CB stated that no changes to the modification could take place but re-emphasises that she is committed to the SSE recommendations and guidance would be produced clarifying this commitment and the checks Code Administrator will undertake.
- 7286 CS highlighted that some businesses have multiple licenses, and that clarification is required so there is no mistreatment is seen across licensees. CB confirmed that the same treatment is given across the industry, and all of industry can see the changes being proposed at Day minus 10 working days.
- 7287 GS stated that if modification proposals are of better quality then time is saved later on in the process. GS is supportive of GC0124, as it gives the Code Administrator time to help develop the proposal which in turn will help the process. If a modification is rushed through, then the industry will spend more time trying to better understand the modification.
- 7288 RL highlighted that the Flexible Generation Groups response is valid but split into two themes, the first is
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around the potential for delaying the proposals where a better proposal is of better quality. The second one being the Code Administrator independence from National Grid group which he believes is not strictly relevant to this modification.

7289 JU queried whether the affected parties section of the proposal form can be updated. CB confirmed that it can be done and it should be treated as a live section of the form throughout the modification process to better inform industry on who is likely to be affected.

7290 TM stated that she does not believe the consumer impacts are properly shown within the code modification proposals.

7291 JU queried if for example a party puts a proposal in but cannot provide a solution and refers it to the Workgroup to resolve, what role would the Code Administrator play in their position of a critical friend. CB stated that the proposer may have some ideas of a solution, but if the proposer is not comfortable in having the solution within the proposal form, then the Code Administrator can only assist in supporting the proposal form.

7192 JU queried if the Code Administrator would codify the recommendations that SSE raised. CB stated she is happy to include in the Final Modification Report, and if that the delivery of this commitment should be reviewed in 3 months

7293 JU highlighted that in previous times National Grid ESO commits to doing something, but when it is not codified then National Grid ESO have scope to not deliver it. TM stated that it is her role as an independent chair to hold the Code Administrator accountable.

7294 The Panel undertook their determination vote and by majority they agreed the original better facilitates the Grid Code Objectives and should be implemented.

7295 **ACTION 252:** Code Administrator to provide guidance clarifying its commitment to meet the recommendations SSE proposed and clarify the checks Code Administrator will undertake

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## 10. Reports to the Authority

7296 There were no reports sent to the Authority

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## 11. Implementation Updates

7297 PM informed the Panel that GC0114 and GC0118 were implemented on the 23 May 2019.

7298 GV stated that the Code Administrator should release revisions of the Grid Code in a combined format when multiple revisions are being released on the same day as stakeholders face difficulty in printing off the Grid Code when multiple revisions are released at different times on the same day. PM confirmed that the Code Administrator have taken on this feedback and will be ensuring that future revisions are combined when being released on the same day.

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## 12. Electrical Standards

7299 PM informed the Panel that the communication standard change is currently in the objection window and this closes at 5pm on 14 June 2019.

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**13. Governance**

7300 Outputs from Workgroups

7301 PM informed the Panel of a new commitment the Code Administrator is making in regards to a summary document that will be sent out following a Workgroup meeting.

7302 RL stated that this is a very good step forward.

7303 Quoracy

7304 PM stated that the Code Administrator is increasingly seeing quoracy issues across modifications, and they are facing on the day meetings of quoracy issues. The Code Administrator has published a consistent approach. PM delivered the slide on quoracy.

7305 GV highlights that this approach is not good for people traveling as costs will be sunk, due to late cancellations.

7306 RW queried whether workgroup members made aware of being able to support quoracy and does the nomination form call out the responsibilities of a member.

7307 RL highlighted that the chair of a workgroup should outline to the workgroup the responsibilities to workgroup Members.

7308 **ACTION 253:** Code Administrator chairs to ensure Workgroup members are aware of their responsibilities in terms of commitment to attending meetings and using alternates where possible.

7309 AF highlighted that the informal meetings are very good and useful, he highlighted this quoracy issue is a new problem and it wasn't experienced previously.

7310 The Panel agreed that informal meetings should go ahead, if a workgroup becomes non-quorate within three weeks of its planned date; however Code Administrator would seek alternates or further workgroup membership to minimise risk of non-quorate meetings.

7311 **ACTION 254:** Code Administrator to ensure Workgroup members are aware of agreed Panel position re: quorate meetings becoming non-quorate within three weeks of its planned date.

7312 DJ stated that the proposal forms need to better spell out the impacts on parties to aid in gaining quoracy.

7313 RW stated that a table should be added in the proposal form to allow stakeholders to understand why they are impacted and how they are impacted (financial, compliance, technical) more easily. DJ highlighted that there was a need for more substance than just a tick in a table, as people do not have enough time to then explore further. He supported that more financial figures need to be provided.

7314 AF highlighted that previous modifications have received comments as part of the Code Administrator consultation from parties that did not realise the modification impacted them.

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7315 TM confirms more work is needed on the impacts for proposals.

7316 DJ queried if the workgroup gets into detail and it transpires more costs are foreseen than the onset, what how does this get circulated. PM stated that further communication from the Code Administrator would be sent out and the Modification proposal would be updated accordingly

7317 **ACTION 255:** Code Administrator to review feedback provided by Panel on proposal forms and ascertain what improvements can be made to form or guidance for completing proposal form.

7318 GS stated over time there should be some flexibility and this should be fed into the Codes Review process, which Ofgem are looking to consult on in a couple of months time. BEIS and Ofgem will run an open consultation and highlights that companies have a good opportunity to respond in relation to quoracy.

7319 **ACTION 256:** GS to feedback to Codes Review team the issues faced around quoracy.

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#### 14. Grid Code Development Forum and Workgroup Day(s)

7320 PM informed the Panel what meetings took place in May.

7321 PM stated that GC0123 is planned for the 12 June 2019 and GC127/128 is planned for 13 June 2019. *Post Meeting Note: GC0125 is also planned for 13 June 2019.*

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#### 15. Standing items

7322 MB informed the Panel that he sought an update in relation to the Distribution Code but to date has not received the requested update.

7323 MB informed the Panel that the last Joint European Stakeholder meeting took place on 14 May 2019 and the main agenda item was BREXIT. MB confirms that the next meeting is due to take place on 11 June 2019.

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#### 16. Horizon Scanning

7324 PM informed the Panel that the Horizon Scan has been updated with the inclusion of modifications being raised on phase 2 in relation to the Emergency and Restoration Code. PM added that these could be brought forward depending on outcome of GC127/128 workgroup discussions.

7325 CS mentioned he had been in touch with Xiaoyao Zhou (the ESO Networks Customer and Technical Policy Manager) to understand the progress of the Virtual Synchronous Machine (VSM) Expert Group as clarification was required on a number of key issues. TJ advised that he had also been in touch with Xiaoyao to understand progress and it was agreed amongst the panel that the Code Administrator should contact Xiaoyao to understand where this work has got to as the last update was over 6 months ago.

7326 **ACTION 257:** Code Administrator to highlight to National Grid ESO internal teams the concerns raised on the proposed Fast Fault Current Injection 2 (FFCI/VSM) Modification and that National Grid ESO need to provide an update.

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#### 17. Code Administrator Code of Practise (CACoP) Forum Update

7327 RH delivered the presentation on the CACoP update.

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7328 RH informed Panel that a Central Modification Register and Horizon Scan document are currently under review from all the Code Administrators, and are being brought up to date. The Central Modification Register can be found on the Gemserv website and the Horizon Scan can be found on the Elexon website.

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**18. Forward Plan Update (Customer Journey)**

7329 PM informed the Panel on the current update on the Customer Journey.

7330 **ACTION 258:** PM to provide a written update on each deferred action and present back at June Panel.

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**19. AOB**

7331 RW highlighted that an item should be added on each panel meeting agenda in relation to the Ofgem Codes Review when a substantial update can be provided.

7332 CS highlighted that the governance process on technical guidance notes, the compliance process in relation to what is written in them and what is required to be done do not align and therefore a review needs to take place.

**ACTION 259:** CS to provide an email to Code Administrator requesting National Grid ESO to explore more on the misalignment. National Grid ESO to respond at July Panel. *Post Meeting Note: Email provided 30 May 2019*

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**20. Next meeting**

7334 The next Panel meeting will take place at Faraday House (and WebEx) on **27 June 2019** commencing at **10am**.

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## Appendix 1 – Panel’s vote in relation to GC0111

At the Grid Code Review Panel meeting on 30 May 2019, the Panel voted on GC0111 against the Applicable Grid Code Objectives.

For reference the Grid Code Objectives are:

<b>i.</b>	to permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity;
<b>ii.</b>	to facilitate competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);
<b>iii.</b>	subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;
<b>iv.</b>	to efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and
<b>v.</b>	to promote efficiency in the implementation and administration of the Grid Code arrangements.

Panel Member	Better facilitates GCO (a)	Better facilitates GCO (b)?	Better facilitates GCO (c)?	Better facilitates GCO (d)?	Better facilitates GCO (e)?	Overall (Y/N)
Tony Johnson (Alternate to Colm Murphy)						
Original	Yes	Yes	Yes	No	Neutral	Yes
<i>Voting Statement:</i>						
As part of the GB implementation of the RfG European Network Code, fast fault current requirements from generators were defined as part of mod GC0100.						
Following this implementation, stakeholders expressed concern that the drafting of Grid Code clause ECC.6.3.16 was unclear, particularly relating to the rated current. The key word that caused the issue and which GC0111 sought to						

resolve was 'reactive' in the clause below referring to the fault current and which was drawn from the European legislation. If this were interpreted as purely reactive then wind turbines could have to produce full rated reactive current plus some active component putting them over their ratings. If what the clause specified was actually the magnitude of the injected current (which was the intention) then this is not an issue – as 'reactive' refers to an overwhelmingly reactive fault current but was not intended to be definitive.

ECC.6.3.16.1.2 For any balanced or unbalanced fault which results in the phase voltage on one or more phases falling outside the limits specified in ECC.6.1.42 at the Grid Entry Point or User System Entry Point, each Type B, Type C and Type D Power Park Module or HVDC Equipment shall, unless otherwise agreed with NGENSO, be required to inject a reactive current above the shaded area shown in Figure ECC.16.3.16(a) and Figure 16.3.16(b). For the purposes of this requirement, the maximum rated current is taken to be the maximum current each Power Park Module (or constituent Power Park Unit) or HVDC Converter is capable of supplying when operating at rated Active Power and rated Reactive Power (as required under ECC.6.3.2) at a nominal voltage of 1.0pu.

NGESO set out that the intention of the drafting of the European Code from which this requirement was drawn was not to push turbines into producing greater than rated current, that NGENSO had no intention of applying the alternative and more onerous interpretation, and that the clause 'unless otherwise agreed with NGENSO' also gave scope both for flexibility and agreement. Stakeholders still felt that this required clarification and Grid Code modification proposal GC0111 was therefore proposed to develop a more detailed specification.

NGESO supports the proposal which satisfies stakeholders and against which the procurement and operation of equipment can be derisked. NGENSO also supports the proposal as it provides greater clarity for unbalanced faults. However, NGENSO feels that there is a debate to be had about the purpose of the Grid Code and whether it is a detailed technical specification or a broader setting out of technical and operational requirements which could perhaps be progressed as part of the Energy Codes Review, noting as well that the legal text has increased from a single paragraph to several pages.

**Guy Nicholson**

Original	Yes	Yes	Yes	Yes	Neutral	Yes
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Voting Statement:  
Agree with workgroup

**Robert Longden**

Original	Yes	Yes	Yes	Yes	Neutral	Yes
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Voting Statement:  
The modification provides clarity on the requirements for FFCI for all stakeholders

**Damien Jackman**

Original	Yes	Yes	Yes	Yes	Yes	Yes
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Voting Statement:  
The proposal better defines the FFCI characteristics to provide clarity for developers and manufacturers.

**Alastair Frew**

Original	Yes	Yes	Yes	Yes	Neutral	Yes
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Voting Statement:  
This modification clarifies the requirements for fast fault current injection by removing the transitional change of response after 140ms and simplifying this into a continuous response requirement

**Graeme Vincent (Alternate to Alan Creighton)**



Original	Yes	Yes	Yes	Yes	Neutral	Yes
<p>Voting Statement:</p> <p>Modification provides additional clarity in relation to the Fast Fault Current Injection (FFCI) requirements expected from new Users.</p>						
Joe Underwood						
Original	Yes	Yes	Yes	Yes	Neutral	Yes
<p>Voting Statement:</p> <p>Better provides clarity of the regulation/Grid Code and will provide increased investor confidence.</p>						
Christopher Smith						
Original	Yes	Yes	Yes	Yes	Neutral	Yes
<p>Voting Statement:</p> <p>Provides clarification on the technical requirements.</p>						
Richard Woodward (Alternate to Ross Mcghin)						
Original	Yes	Yes	Yes	Yes	Neutral	Yes
<p>Voting Statement:</p> <p>We are satisfied with the approach taken by the proposer and the workgroup, and are happy to endorse the outcome they advocate.</p>						

**Vote 2 – Which option is the best? (Baseline or Original)**

Panel Member	BEST Option?
Tony Johnson (Alternate to Colm Murphy)	Original
Guy Nicholson	Original
Robert Longden	Original
Damian Jackman	Original
Alastair Frew	Original
Graeme Vincent (Alternate to Alan Creighton)	Original
Joe Underwood	Original
Christopher Smith	Original
Richard Woodward (Alternate to Ross McGhin)	Original

## Appendix 2 – Panel’s vote in relation to GC0124

At the Grid Code Review Panel meeting on 30 May 2019, the Panel voted on GC0124 against the Applicable Grid Code Objectives.

For reference the Grid Code Objectives are:

<b>i.</b>	to permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity;
<b>ii.</b>	to facilitate competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);
<b>iii.</b>	subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;
<b>iv.</b>	to efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and
<b>v.</b>	to promote efficiency in the implementation and administration of the Grid Code arrangements.

Panel Member	Better facilitates GCO (a)	Better facilitates GCO (b)?	Better facilitates GCO (c)?	Better facilitates GCO (d)?	Better facilitates GCO (e)?	Overall (Y/N)
Tony Johnson (Alternate to Colm Murphy)						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<i>Voting Statement:</i>						
The NGESO support this modification as it provides greater transparency and clarity to Users and enables the Code Administrator to undertake its role in a more transparent manner.						
Guy Nicholson						
Original	Neutral	Neutral	Neutral	No	No	No
<i>Voting Statement:</i>						

<p>I very much support the aim of the GC0124 modification proposal to improve the quality of future new modification proposals to the Grid Code. Proposals which are well framed, drafted and thought through should pass through the change process more rapidly. There were objections to GC0124 by eleven generators represented by the Flexible Generators Group due to concerns about delays to mods by adding 5 days to the process to allow the Code Administrator to advise on improvements to the modification. Under GC0124, the proposer of a new modification would not be obliged to take any advice given by the Code Administrator. Therefore, I would rather encourage the improvement of mods on a voluntary basis, rather than via this GC0124 Grid Code mod. For example, there should be a web page for new mods with the 5 documents on the current web page but also with guidance and advice on submitting a mod and encouraging dialogue before submission. There are a number of other issues in the modification processes which need fixing before this mod, some of which have been identified in the course of GC0107 and also in Grid Code Panel meetings.</p>						
Robert Longden						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>GC0124 will better facilitate Applicable Grid Code (v). The Code Administrator requires sufficient time to ensure that proposals meet the required standards to be initiated and that the Panel are presented with draft proposals which can be properly and fully considered. In addition, the proposer(s) will benefit from feedback and assistance from the Code Admin team. It should be a purely objective process and the Code Admin team should have no input to the merits/demerits of the proposal. The period of 5 days should be reviewed once sufficient experience with the process is gained.</p>						
Damien Jackman						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>The modification will improve the quality of proposals, better highlighting defects with the existing code. This will help provide more accurate and narrow terms of references for workgroups and lead to better quality modifications.</p>						
Alastair Frew						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>This modification only potentially affects proposals which current only arrive 5 days before papers day and in terms of the total duration the modification takes to progress this is not significant, therefor on balance the modification is beneficial.</p>						
Graeme Vincent (Alternate to Alan Creighton)						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>Allowing additional time should ensure that modifications when presented to the Panel contain sufficient detail about the perceived defect to allow them to understand the defect and agree the most appropriate governance route and establish an initial terms of reference. It should also assist Users in determining whether the modification has an impact on them.</p>						
Joe Underwood						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>The modification will allow future modifications to be of better quality through the critical friend process. Some respondents have raised concerns that there is no route to stop the ESO (as a Grid Code Party) from raising modifications “behind the scenes” within this 5WD period - this has been addressed by the ESO as the Code Administrator and they have committed to put a process in place and put it in a guidance document.</p>						

Christopher Smith						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>The mod is satisfactory. Note the issue raised by consultation should be considered separately as it is important in a changing Energy mix</p>						
Richard Woodward (Alternate to Ross Mcghin)						
Original	Neutral	Neutral	Neutral	Neutral	Yes	Yes
<p>Voting Statement:</p> <p>We are happy to support GC0124, which seeks to improve efficiency of code admin processes for the benefit of all. We note the unanimous STC Panel approval of the corresponding STC modification (CM073), of which NGET provided a supportive consultation response which sets out fuller views if needed.</p>						

**Vote 2 – Which option is the best? (Baseline or Original)**

Panel Member	BEST Option?
Tony Johnson (Alternate to Colm Murphy)	Original
Guy Nicholson	Baseline
Robert Longden	Original
Damian Jackman	Original
Alastair Frew	Original
Graeme Vincent (Alternate to Alan Creighton)	Original
Joe Underwood	Original
Christopher Smith	Original
Richard Woodward (Alternate to Ross McGhin)	Original