

Grid Code Review Panel

25 April 2019

Welcome

Introductions and
Apologies for
Absence



nationalgridESO



Approval of Panel Minutes

28 March 2019

Actions Log

Review of the actions log





Chair's Update

An update from the Chair about ongoing relevant work, discussions etc.

Authority Decisions

Awaiting decision on
GC0114

Awaiting decision on
GC0118



New Modifications

- **GC0127: EU Code Restoration – Requirements resulting from System Defence Plan**
- **GC0128: EU Code Emergency and Restoration – requirements resulting from System Restoration Plan**



GC0127: EU Code Restoration – Requirements resulting from System Defence Plan

Rachel Woodbridge-Stocks
NGESO



Requirements resulting from System Defence Plan

This modification seeks to align the GB Grid Code with the European Emergency and Restoration Code, specifically in relation to requirements resulting from the System Defence Plan (SDP).

Defect

The [Emergency and Restoration Code \(E&R\)](#) requires the Electricity System Operator to create a [System Defence Plan \(SDP\)](#), which National Grid ESO produced and consulted on in September 2018. There are requirements on storage providers and SGUs in the SDP that are not currently in the Grid Code and so the two need to be aligned for transparency.

Proposer Recommended Governance Route

The Proposer recommends that this modification follows the standard governance route with a workgroup.

Recommended Timeline

Date	Activity
May – July 2019	GC0127 Workgroup meetings
July 2019	Workgroup Report submitted to Panel
August 2019	Code Administrator Consultation (15 working days)
26 September 2019	Draft Grid Code Modification Report will be presented to Panel
26 September 2019	Modification Panel Recommendation vote
11 October 2019	Final Grid Code Modification Report submitted to the Authority for a decision (35 Working Days)
29 November 2019	Expected Authority decision
18 December 2019	Implementation within the Grid Code

Does the Panel agree that GC0127 meets the Self Governance Criteria?

Self-Governance Criteria

A proposed Modification that, if implemented,

- (a) is unlikely to have a material effect on:
 - (i) existing or future electricity consumers; and
 - (ii) competition in the generation, distribution, or supply of electricity or any commercial activities connected with the generation, distribution or supply of electricity; and
 - (iii) the operation of the National Electricity Transmission System; and
 - (iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and
 - (v) the Grid Code's governance procedures or the Grid Code's modification procedures, and

- (b) is unlikely to discriminate between different classes of Users

Next Steps

Does the Panel agree this is a standard governance modification with a Workgroup?

If so:

- The Code Administrator will open the Workgroup nomination window for GC0127 (15 working days).
- First Workgroup meeting anticipated to take place in End May/June 2019.

GC0128: EU Code Emergency and Restoration – requirements resulting from System Restoration Plan

Rachel Woodbridge Stocks
NGESO



Requirements resulting from System Restoration Plan

This modification seeks to align the GB Grid Code with the European Emergency and Restoration Code, specifically in relation to requirements resulting from the System Restoration Plan (SRP).

Defect

The [Emergency and Restoration Code \(E&R\)](#) requires the Electricity System Operator to create a [System Restoration Plan \(SRP\)](#), which National Grid ESO produced and consulted on in September 2018. There are requirements on SGUs and providers of Black Start in the SRP that are not currently in the Grid Code and so the two need to be aligned for transparency.

Proposer Recommended Governance Route

The Proposer recommends that this modification follows the standard governance route with a workgroup.

Recommended Timeline

Date	Activity
May – July 2019	GC0128 Workgroup meetings
30 July 2019	Workgroup Report submitted to Panel
August 2019	Code Administrator Consultation (15 working days)
26 September 2019	Draft Grid Code Modification Report will be presented to Panel
26 September 2019	Modification Panel Recommendation vote
11 October 2019	Final Grid Code Modification Report submitted to the Authority for a decision (25 Working Days)
29 November 2019	Expected Authority decision
18 December 2019	Implementation within the Grid Code

Does the Panel agree that GC0128 meets the Self Governance Criteria?

Self-Governance Criteria

A proposed Modification that, if implemented,

- (a) is unlikely to have a material effect on:
 - (i) existing or future electricity consumers; and
 - (ii) competition in the generation, distribution, or supply of electricity or any commercial activities connected with the generation, distribution or supply of electricity; and
 - (iii) the operation of the National Electricity Transmission System; and
 - (iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and
 - (v) the Grid Code's governance procedures or the Grid Code's modification procedures, and

- (b) is unlikely to discriminate between different classes of Users

Next Steps

Does the Panel agree this is a standard governance modification with a Workgroup?

If so:

- The Code Administrator will open the Workgroup nomination window for GC0128 (15 working days).
- First Workgroup meeting anticipated to take place in End May/June 2019.



In Flight Modification Updates

Review of all Grid Code modifications with current status, next steps and any Panel recommendations

GC0125 - EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors

- **Last meeting held:** First Workgroup scheduled for 9 May 2019
- **Workgroup Report due:** 26 September 2019
- **Status:** Out for Workgroup nominations (this closes on 26 April 2019)
- **Next steps:** A introductory webinar is being held on the 18 April 2019
- **Panel action required:** No action requested from Panel.
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0125-eu-code-emergency-restoration-black-start-testing-requirements>

GC0123 - Clarifying references to NGET and Relevant Transmission Licensees

- **Last meeting held:** First Workgroup scheduled for 8 May 2019
- **Workgroup Report due:** 30 May 2019
- **Status:** Out for Workgroup nominations (this closes on 26 April 2019)
- **Next steps:** A introductory webinar is being held on the 18 April 2019
- **Panel action required:** No action requested from Panel.
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0123-clarifying-references-nget-and-relevant-transmission-licensees>

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).

- **Last meeting held:** 27 March 2019
- **Workgroup Report due:** 29 August 2019
- **Status:** On track to meet the Panel timetable for the Workgroup report
- **Next steps:** Workgroup to meet to finalise Workgroup Consultation.
- **Panel action required:** No action requested from Panel.
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0109-open-transparent-non-discriminatory-and-timely-publication>

GC0103 - Introduction of Harmonised Applicable Electrical Standards

- **Last meeting held:** 8 February 2019
- **Workgroup Report due:** 25 July 2019
- **Status:** Currently on track to meet the Panel timetable.
- **Next steps:** Code Administrator seeking dates to hold the next Workgroup meeting as the last planned meeting failed to meet quoracy (11 April 2019).
- **Panel action required:** No action requested from Panel.
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0103-introduction-harmonised-applicable-electrical-standards-gb>

GC0107/ GC0113

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.

- **Last meeting held: 10 April 2019**
- **Workgroup Report due: 27 June 2019**
- **Next steps: Workgroup finalising the solution and progressing actions to progress this modification.**
- **Panel action required: No action requested from Panel.**

More information on modification:

GC0107 - <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0107-open-transparent-non-discriminatory-and-timely-publication>

GC0113 - <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0113-open-transparent-non-discriminatory-and-timely-publication>

GC0117 - Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements.

- **Last meeting held:** 10 April 2019
- **Workgroup Report due:** 30 July 2019
- **Status:** On track to meet the Panel timetable for the Workgroup report to be submitted
- **Next steps:** Workgroup further developing the solutions from the initial assessment.
- **Panel action required:** No action requested from Panel.
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0117-improving-transparency-and-consistency-access-arrangements>

GC0105 - System Incidents Reporting

- **Last meeting held:** 13 March 2019
- **Workgroup Report due:** 30 May 2019
- **Status:** Risk to the current Panel timetable in relation to the Workgroup Report to Panel. This is due to quoracy issues for the Workgroup to meet.
- **Next steps:** Currently seeking the next Workgroup date for the Workgroup vote. Based on workgroup availability, this is likely to be May for the next meeting.
- **Panel action required:** No action requested from Panel.
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0105-system-incidents-reporting>

GC0126 - Implementing Profiled Stable Import and Export Limits, and reversing unimplemented aspects of GC0068

- **Last meeting held:** First Workgroup scheduled for 9 May 2019
- **Workgroup Report due:** To be confirmed as agreed by the Panel.
- **Status:** Out for Workgroup nominations (this closes on 26 April 2019)
- **Next steps:** A introductory webinar is being held on the 18 April 2019
- **Panel action required:** No action requested from Panel.
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0126-implementing-profiled-stable-import-and-export-limits-and>

Blockers on Modification Progression – For information only

Description	Occurrences				Commentary
	Jan-19	Feb-19	Mar-19	Apr-19	
Impact of Open Governance (Mods to Code Admin)					
Stakeholder Led delay (need to be specific)	1	1			1) GC0103 solution change (also applies to unanticipated complexity of mod)
Code Administrator Led Delay					
Availability of Workgroup / industry	1	2	2	2	1) GC0107/GC0113 proposer availability 2) GC0109 quoracy 3) GC0105 gaining quoracy to vote 4) GC0105 gaining quoracy to vote 5) GC0103 quoracy
Delays in agreeing legal text		1	1		1) GC0105 the Workgroup didn't feel the legal text was of good enough quality 2) GC0111
Delays in agreeing alternatives					
Delay caused by other priority mods					
Unreasonable timescales set at outset					
Unanticipated complexity of code mods					

Prioritisation principles




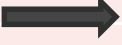

Complexity The defect addressed by the proposed modification has implications for many different areas of the energy system which need to be taken into consideration throughout the process. The technical complexity and cross code impact of the modification will most likely require significant use of industry time and a higher than average number of workgroups to conclude the process.

Importance The perceived value and risk associated with the proposed modification. The value / risk could be considered from a number of different perspectives i.e. financial / regulatory / licence obligations both directly for customer and end consumers more generally.

Urgency A proposed modification which requires speedy consideration within the code governance process, as well as the timescales for implementation within the respective code.

Prioritisation Stack

** = Code Admin have faced issues with quoracy

Movement	Date Raised	Modifications at Workgroup Stage	Panel Comments on Prioritisation
New Modification	20/03/2019	GC0125: EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors	Linked to European Network Codes compliance
New Modification	20/03/2019	GC0123: Clarifying references to NGET and Relevant Transmission Licensees	Instruction given by the Authority
	14/02/2018	GC0109: The open, transparent, non discriminatory 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).	Urgent Decision Request from Proposer **
	21/07/2017	GC0103: Introduction of Harmonised Applicable Electrical Standards	With other Modification having Legal requirements this modification has been placed here.
	18/04/2018	GC0113/107: 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 Demand Connection Code (DCC).	With other Modification having Legal requirements this modification has been placed here. **
	20/06/2018	GC0117 - Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements.	With other Modification having Legal requirements this modification has been placed here.
	10/10/2017	GC0105: System Incidents Reporting	**
New Modification	20/03/2019	GC0126: Implementing Profiled Stable Import and Export Limits, and reversing unimplemented aspects of GC0068	Longer timescale to deliver

Fast Track Self Governance Modifications

Date Raised	Modifications title	Status	Anticipated implementation date subject to no appeals
N/A	None	N/A	N/A

Self Governance Modifications

Date Raised	Modifications title	Status	Anticipated Implementation Date
18/04/2019	GC0121: Grid Code changes in the event the UK leaves the EU without an agreement	On hold, pending outcome of Brexit	To be confirmed



Workgroup Reports

GC0096

GC0096 Background

- GC0096 was raised by National Grid ESO and was submitted to the Grid Code Modification Panel for their consideration in May 2016.
- A Workgroup Consultation took place and 8 responses were received.
- No alternative Workgroup Alternative Grid Code Modifications were raised.
- The Workgroup unanimously agreed that the Original solution better facilitates the Grid Code objectives and should be implemented.

GC0096 Terms of Reference

Areas the Workgroup shall consider	Location in the report
<p>a) Workgroup meeting one: “Definitions” We will determine which Storage categories shall be the focus of the workgroup; either “Energy Storage” or “Electricity Storage”, or both. Once agreed, we will form a high-level working definition (noting the link to the BEIS/Ofgem call for evidence) to set the context for delivering the next workgroup deliverables. We will also consider how this definition links with existing Transmission Generation or Demand users looking to co-locate with Storage.</p>	Section 3 and 4
<p>b) Workgroup meeting two-to-three – “Technical and Planning Requirements” We will form the minimum Grid Code technical requirements applicable to Storage equipment defined above - either via a stand-alone connection or co-located with an existing user, ensuring consistency and transparency with other classes of Transmission System user.</p>	Section 3 and 4
<p>c) Workgroup meeting four – “Structure” consideration of how (or if), the outcomes from the previous workgroup meetings need to be structured in the Grid Code via legal text changes.</p>	Section 3 and 4

GC0096 Terms of Reference

Areas the Workgroup shall consider	Location in the report
<p>d) Workgroup meeting five – “Next steps” this will be an open attendance meeting allowing a full review of the outputs from the previous workgroups to confirm what will be written up in reports/consultations to progress any Grid Code Mod proposals. It will also check the outcomes of GC0096 against the BEIS/Ofgem call for evidence published outcomes (if available) This meeting will also set out what additional arrangements (see ‘Out of Scope’ below) may need to be considered in other GB frameworks to support Storage, and recommend items for escalation if not currently being considered.</p>	<p>Section 3 and 4</p>

GC0096

The Panel is invited to:

- Consider whether the Workgroup has met its terms of reference
- Agree for GC0096 to proceed to Code Administrator Consultation

GC0096 Timeline

25 April 2019	Workgroup Report presented to Grid Code Review Panel
3 May 2019	Code Admin Consultation Report issued (minimum 15 Working Days – proposing 20 working days due to volume of legal text changes with a close date 4 June 2019)
27 June 2019	Draft Final Modification Report presented to Panel and Recommendation Vote carried out
1 July 2019	Circulated to Panel
8 July 2019	Sent to Ofgem for decision (25 Working days)
12 August 2019	Ofgem Decision
23 August 2019	Implementation (10 working days from decision)

Lunch Break

Draft Final Modification Reports

None



Reports to the Authority

None



Implementation Updates

- **GC0112**
- **GC0120**
- **GC0122**



Electrical Standards

Communication Standards – National Grid ESO



Governance

Discussion about the Panel's role
in modification extensions





Grid Code Development Forum and Workgroup Day

Grid Code Development Forum and Workgroup Day(s)

Grid Code Development Forum and Workgroup Day – 10 & 11 April 2019

GCDF

- Cancelled due to lack of business

Workgroup Day

- GC0107/113 (half day on 10 April 2019)
- GC0117 (half day on 10 April 2019)
- GC0103 (scheduled for 10 April 2019 but cancelled due to quoracy)

- **Next Grid Code Development Forum and Workgroup Day – 8 & 9 May 2019**

Workgroup Days

- GC0123 (8 May 2019)
- GC0125 (half day on 9 May 2019)
- GC0126 (half day on 9 May 2019)



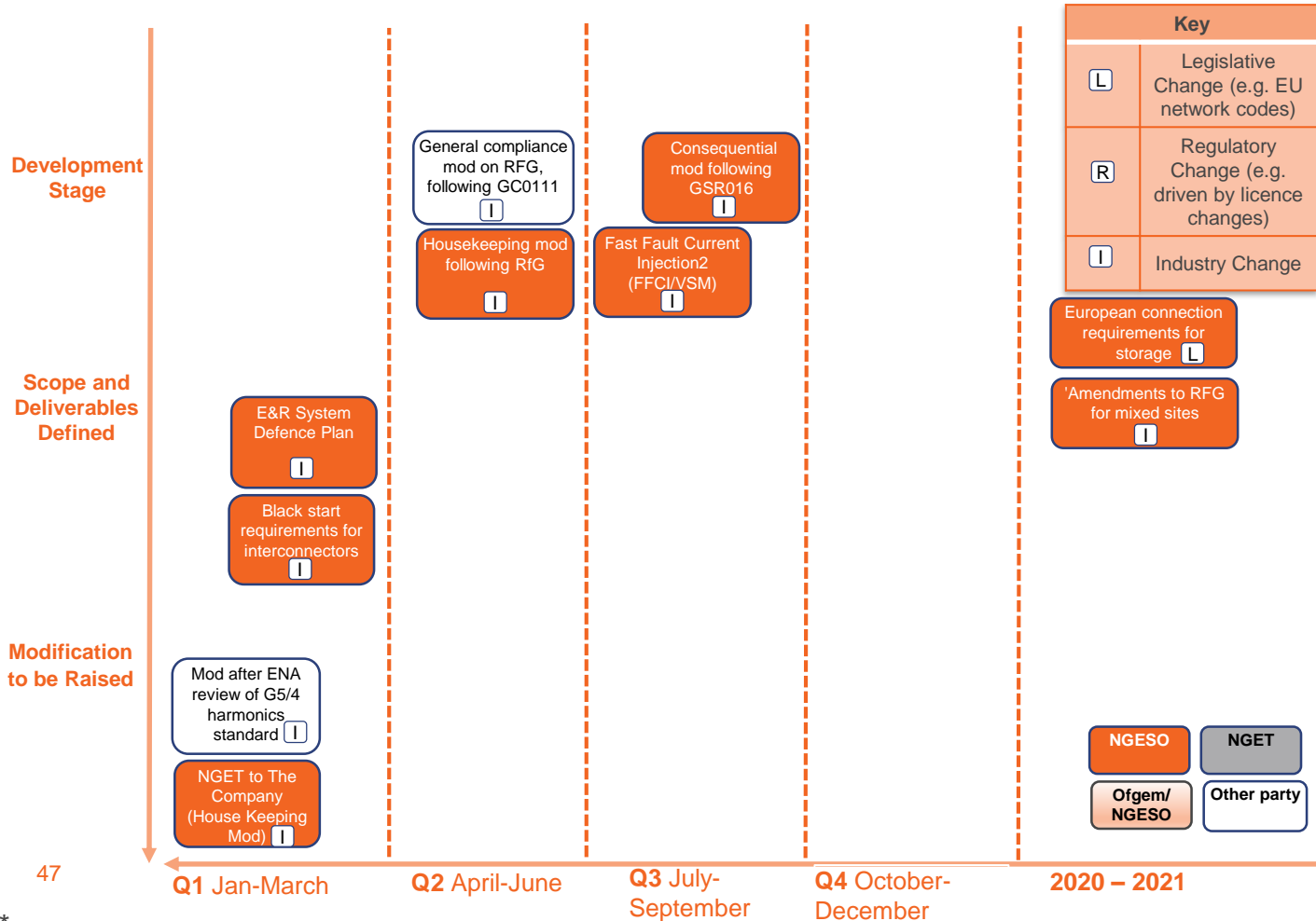
Standing Items

- **Distribution Code Panel update**
- **JESG Update**

Horizon Scanning



Grid Code Horizon Scan* ~ April 2019



*This information is true at the point of publication and is intended for indicative purposes only

Plan on a Page

Joseph Henry,
National Grid ESO



Plan on a Page - Context

- Plan on a Page (POAP) has been traditionally used in order give Panels and Industry a view of upcoming change on each code.
- As part of your customer journey work, we are looking to enhance this part of your panel/forum
- We have put together two prototypes for which we are seeking feedback.
- N.B – All data is test data and not indicative of current modifications.
- Option 1 – Interactive POAP
- Option 2 – Improvements to Traditional POAP (Linear)

Plan on a Page - Interactive



Plan on a Page - Interactive

- Bubbles representing modifications are given RAG statuses to indicate if they are on track
- Modifications mapped on to 6 Grid Code stage gates
- Truncated 3 month timescale used to drive actions
- POAP becomes interactive – bubbles are hyperlinked to more granular information for each modification
- Clearly tracks modifications through stage gates
- I will now walk you through how this could work

POAP – Current View



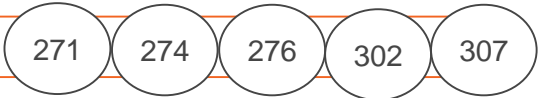
WG Development	WG Consultation	WG Report to Panel
<p>280 (Action Needed) 287 (Off Track) 300 (On Track) 308 (On Track)</p> <p>281 (Action Needed) 291 (On Track) 304 (On Track)</p> <p>286 (Off Track) 298 (On Track) 306 (On Track)</p>	<p>288/9 (On Track) 292 (On Track) 295 (Action Needed) 303 (On Track)</p>	
CA Consultation	DFMR/FMR	With Authority
<p>285 (Off Track)</p>	<p>301 (Off Track)</p>	<p>305 (On Track)</p>



POAP – 1 Month Ahead (March)


















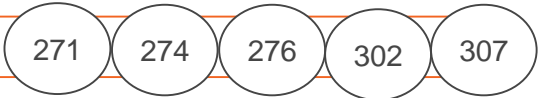
WG Development 	WG Consultation 	WG Report to Panel
CA Consultation	DFMR/FMR	With Authority



POAP – 3 Month Ahead (May)



WG Development 	WG Consultation   	WG Report to Panel   
CA Consultation 	DFMR/FMR    	With Authority    



CMP280 - 'Removal of BSUoS Charges From Energy Taken From the National Grid System by Storage Facilities'

Purpose of Modification:

The Modification aims to remove liability from Generator and Storage Parties for the Demand Residual element of the TNUoS tariff.

Modification Stage:

Post Workgroup
Consultation

Developments Since Last Panel:

2 Workgroups held in
January. SVA solution
has been developed
by the workgroup.
Extension Granted by
Panel in January

Next Steps

WG to be held in
March 2019 – Report
due before panel in
May 2019

Indicative Implementation Date:

APRIL 2020

Proposer: Drax (Previously Scottish Power) Raised: June 2017

CMP281 - 'Removal of BSUoS Charges From Energy Taken From the National Grid System by Storage Facilities'

Purpose of Modification:

The Modification aims to remove BSUoS charges from energy taken to operate storage facilities. This modification will have a CVA and SVA solution.

Modification Stage:

Post Workgroup
Consultation

**Developments Since
Last Panel:**
2 Workgroups held in
January. SVA solution
has been developed
by the workgroup.
Extension Granted by
Panel in January

Next Steps

WG to be held in
March 2019 – Report
due before panel in
May 2019

**Indicative
Implementation Date:**

April 2020

Proposer: Engie (Previously Scottish Power) Raised: June 2017

CMP285 - CUSC Governance Reform – Leveling the Playing Field

Purpose of Modification:

This modification seeks to reform CUSC governance to enhance the independence and diversity of Panel members and ensure wider engagement from CUSC signatories.

Modification Stage:

Code Admin
Consultation

Developments Since
Last Panel:
Issued for CAC after
legal text problems
identified

Next Steps

Bring before panel
and submit to
Authority

Indicative
Implementation Date:
10 days after
authority decision

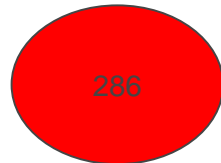
Proposer: UK Power Reserve Raised: August 2017

CMP286 - Improving TNUoS Predictability through Increased Notice of the Target Revenue used in the TNUoS Tariff Setting Process

Purpose of Modification:
To improve the predictability of TNUoS demand charges by bringing forward the date at which the target revenue used in TNUoS tariff setting is fixed to allow customer prices to more accurately reflect final TNUoS rates.

Modification Stage: Workgroup Development	Developments Since Last Panel: Liaised with proposer in regards to second RFI	Next Steps Issue RFI	Indicative Implementation Date: April 2020
--	---	------------------------------------	--

Proposer: NPower Raised: October 2017



CMP287 - Improving TNUoS Predictability Through Increased Notice of Inputs Used in the TNUoS Tariff Setting Process

Purpose of Modification:

Improve the predictability of TNUoS demand charges by bringing forward the date at which certain parameters used in TNUoS tariff setting (such as demand forecasts) are fixed to allow customer prices to more accurately reflect final TNUoS rates.

Modification Stage:

Workgroup
Development

Developments Since
Last Panel:
Liaised with
proposer in regards
to consulting

Next Steps

Issue WG
Consultation

Indicative
Implementation Date:
April 2020

Proposer: NPower Raised: October 2017

Initial Feedback - Interactive

What are your initial thoughts?

- Is it useful?
- Is it an improvement?
- Does it serve its intended purpose?

Plan on a Page - Linear



Plan on a Page – Linear (Spreadsheet)

- Modification mapped over six months to track process
- 6 Grid Code stage gates represented against timescales with a RAG status for each stage, helping to identify blockers.
- Total RAG status given for each modification – driving action where needed
- POAP retains more interactivity – bubbles are hyperlinked to more granular information for each mod, as with interaction
- Clearly tracks modifications through stage gates

Initial Feedback - Linear

What are your initial thoughts?

- Is it useful?
- Is it an improvement?
- Does it serve its intended purpose?

Feedback

If you have any feedback, please provide it to cusc.team@nationalgrid.com

We will attend the next Grid Code Panel with a further update.



Next Panel Meeting

10am on 30 May 2019 at Faraday House

Papers Day – 22 May 2019

nationalgrideso.com

National Grid ESO, National Grid House, Warwick Technology Park,
Gallows Hill, Warwick, CV346DA

nationalgridESO