

# Grid Code Review Panel

30 May 2019

# Welcome

Introductions and  
Apologies for  
absence



nationalgridESO



# Approval of Panel Minutes

25 April 2019

# Actions Log

## Review of the actions log





## Chair's Update

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

# Authority Decisions

Decision received on  
GC0114

Decision received on  
GC0118



# New Modifications

- **GC0129:** Updating references to Engineering Recommendation G5



# GC0129: Updating references to Engineering Recommendation G5

Greg Heavens  
National Grid ESO





# GC0129: Updating references to Engineering Recommendation G5

The Grid Code references Engineering Recommendation G5 in several places; this modification seeks to align the references to G5 to issue 5.

## Defect

Engineering Recommendation G5 defines planning levels and compatibility levels for the assessment of voltage distortion from User's equipment and installations with harmonic emission to be connected to transmission systems and distribution networks in the United Kingdom. The Distribution Code Review Panel (DCRP) has recently held a consultation to update Engineering Recommendation G5 to issue 5.

# GC0129: Updating references to Engineering Recommendation G5

## Solution

Draft Legal Text has been prepared, and is included in the Modification Proposal form.

The following sections of the Grid Code are expected to be changed by this modification:

- Glossary and Definitions
- Planning Code
- Connection Conditions
- European Connection Conditions
- Operating Code No. 5

The solution moves the issue number from the various sections to an entry in the Glossary and Definitions. This should make future updates simpler.

It is proposed to update the references within the Grid Code to refer to Engineering Recommendation G5, and move the issue number G5/5 to a line in the Glossary and Definitions.

# Proposer Recommended Governance Route

The Proposer recommends that this modification follows the standard governance route and proceed to Code Administrator Consultation.

## Recommended Timeline

Deliverable	Date
Code Administrator Consultation Report issued to the Industry	w/c 3 June 2019
Draft Final Modification Report presented to Panel	30 July 2019
Modification Panel decision	30 July 2019
Final Modification Report issued to the Authority	w/c 12 August 2019
Decision implemented in Grid Code	w/c 30 September 2019

# Panel Decision

Does the Panel agree that:

- This is a standard governance modification; and
- This modification should proceed to Code Administrator Consultation.



# In Flight Modification Updates

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

# GC0127 - EU Code Emergency & Restoration: Requirements resulting from System Defence Plan



- **Last meeting held:** n/a
- **Workgroup Report due:** 29 August 2019 (originally intended to be 30 July 2019)
- **Status:** Planning for 1<sup>st</sup> workgroup meeting
- **Next steps:** 1st workgroup meeting to be held 29 May
- **Panel action required:** Note change to “Workgroup Report due” – will still meet 18 December 2019 timescales

- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0127-eu-code-emergency-restoration-requirements-resulting-system>

# GC0128 - EU Code Emergency & Restoration: Requirements resulting from System Restoration Plan



- **Last meeting held:** n/a
- **Workgroup Report due:** 29 August 2019 (originally intended to be 30 July 2019)
- **Status:** Planning for 1<sup>st</sup> workgroup meeting
- **Next steps:** 1st workgroup meeting to be held 29 May
- **Panel action required:** Note change to “Workgroup Report due” – will still meet 18 December 2019 timescales
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0128-eu-code-emergency-restoration-requirements-resulting-system>

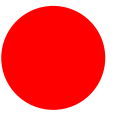
# GC0125 - EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors



- **Last meeting held:** 9 May 2019
- **Workgroup Report due:** 29 August 2019 (originally intended to be 30 July 2019)
- **Status:** Being progressed with workgroup
- **Next steps:** 2<sup>nd</sup> workgroup meeting to be held 3 June 2019
- **Panel action required:** Note change to “Workgroup Report due” – will still meet 18 December 2019 timescales
- **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:** n/a
- **Workgroup Report due:** To be confirmed at 1<sup>st</sup> workgroup (subject to quoracy)
- **Status:** Workgroup nominations (2<sup>nd</sup> round) closed 20 May 2019; still not quorate
- **Next steps:** First Workgroup scheduled for 12 June 2019 (subject to quoracy)
- **Panel action required:** Panel approval sought for revised approach where we circulate and agree legal text and then go to Code Administrator Consultation
- **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).

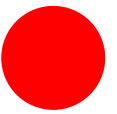
- **Last meeting held:** 10 May 2019
- **Workgroup Report due:** 29 August 2019
- **Status:** On track to meet the Panel timetable for the Workgroup report
- **Next steps:** Workgroup to meet to finalise Workgroup Consultation.
- **Panel action required:** No action requested from Panel.
- **More information 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:** 17 May 2019
- **Workgroup Report due:** To be confirmed at next workgroup (Report originally due 30 July 2019)
- **Status:** Workgroup discussions ongoing.
- **Next steps:** Transmission Owners to continue to address actions.
- **Panel action required:** Note that Workgroup Report due date will not be met and we will need to propose an extension to Panel after next workgroup held.
- **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: 13 May 2019**
- **Workgroup Report due: To be confirmed at next workgroup (Report originally due 27 June 2019)**
- **Next steps: Workgroup finalising the workgroup report and legal text before going to workgroup consultation. Next workgroup 13 June 2019.**
- **Panel action required: Note that Workgroup Report due date will not be met and we will need to propose an extension to Panel after next workgroup held.**

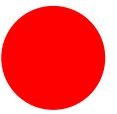
## More information on modification:

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

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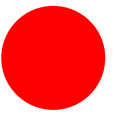
GC0113 - <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0113-open-transparent-non-discriminatory-and-timely-publication>

# 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:** To be confirmed at next workgroup (Report originally due 30 July 2019)
- **Status:** Workgroup discussions ongoing.
- **Next steps:** Next Workgroup to be held 11 July 2019.
- **Panel action required:** Note that Workgroup Report due date will not be met and we will need to propose an extension to Panel after next workgroup held.
- **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:** 27 June 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.
- **Panel action required:** Agree extension for Workgroup Report due to 29 August 2019.
- **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:** n/a
- **Workgroup Report due:** To be confirmed at 1<sup>st</sup> workgroup (subject to quoracy)
- **Status:** Workgroup nominations (2<sup>nd</sup> round) closed 20 May 2019; still not quorate
- **Next steps:** Addressing quoracy issues
- **Panel action required:** Panel approval and advice sought for revised approach where we circulate and agree legal text and then go to Code Administrator Consultation
- **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	May 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	2	1) GC0107/GC0113 proposer availability 2) GC0109 quoracy 3) GC0105 gaining quoracy to vote 4) GC0105 gaining quoracy to vote 5) GC0103 quoracy 6) GC0105 gaining quoracy to vote 7) GC0125 quoracy 8) GC0123 quoracy 9) GC0126 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					3	1) GC103 2) GC107/113 3) GC117
Unanticipated complexity of code mods						
Extension Requests				1		1) GC0105





# Discussions on Prioritisation

# Prioritisation principles

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**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
	15/04/2019	<b>GC0127:</b> EU Code Emergency & Restoration: Requirements resulting from System Defence Plan	Linked to European Network Codes compliance
	15/04/2019	<b>GC0128:</b> EU Code Emergency & Restoration: Requirements resulting from System Restoration Plan	Linked to European Network Codes compliance
	20/03/2019	<b>GC0125:</b> EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors	Linked to European Network Codes compliance **
	20/03/2019	<b>GC0123:</b> Clarifying references to NGET and Relevant Transmission Licensees	Instruction given by the Authority **
	14/02/2018	<b>GC0109:</b> 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	<b>GC0103:</b> Introduction of Harmonised Applicable Electrical Standards	With other Modification having Legal requirements this modification has been placed here.

# Prioritisation Stack

\*\* = Code Admin have faced issues with quoracy

Movement	Date Raised	Modifications at Workgroup Stage	Panel Comments on Prioritisation
	18/04/2018	<b>GC0113/107:</b> 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	<b>GC0117</b> - 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	<b>GC0105:</b> System Incidents Reporting	Placed in order from priority of other modifications **
	20/03/2019	<b>GC0126:</b> 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	<b>GC0121:</b> Grid Code changes in the event the UK leaves the EU without an agreement	On hold, pending outcome of Brexit	To be confirmed

# Draft Final Modification Reports (DFMR)

GC0111

GC0124



# GC0111 Background

- **GC0111** was raised by Mike Kay on behalf of Electricity North West and was submitted to the Grid Code Modification Panel for their consideration in October 2017
- Joint Grid and Distribution Code Workgroup established
- **No Workgroup Consultation took place**
- **No** alternatives proposed (WAGCMs)
- **Two** responses were received as part of the Code Administrator Consultation
- The Workgroup unanimously agreed that the Original solution best facilitates the Grid Code objectives and should be implemented.

# GC0111 Code Administrator Consultation

The Code Administrator Consultation closed on **8 May 2019** and received **two** responses

- EDF (Andy Vaudin) raised no further comments and felt GC0111 helps clarify the Grid Code current legal text
- National Grid ESO (Tony Johnson) raised no further comments and also felt GC0111 helps clarify the Grid Code



## Next steps

- **Determination Vote**
- **Timetable suggested below:**

30 May 2019	Determination Vote from the Grid Code Review Panel
31 May 2019	Appeal Window Opens
21 June 2019	Appeal Window Closes
5 July 2019	Implementation



**GC0124**  
Critical Friend review  
period for submission  
of new modifications

# GC0124 Background and consultation

- **GC0124** was raised by Chrissie Brown from National Grid Electricity System Operator and was submitted to the Grid Code Modification Panel for their consideration in March 2019.
- Modification **CMP313** also raised at the CUSC Panel
- Modifications proceeded directly to Code Administrator Consultation and will be subject to Self-Governance procedures

The Code Administrator Consultation closed on **14 May 2019** and received **three** responses

- Two of the three respondents agreed that the modification better facilitates the Grid Code objectives (one subject to implementation suggestions)
- One of the respondents stated that it did not better facilitate the objectives due to the Code Administrator being within the Electricity System Operator and could be seen as making the process longer. Would be more inclined to think useful if Code Administrator was

# GC0124 Code Administrator Consultation

One respondent suggested that the following steps were taken to ensure transparency in the application of the modification;

- 1) **Email to industry** following the deadline day detailing details of all of the modifications submitted to them (Modification number and title)
- 2) **Copy of all modifications** received by the deadline to be submitted to the Panel Chair

The ESO Code Administrator would like to commit to these two suggested steps as part of implementation of these modifications and proposes updating the draft self-governance report to reflect the commitment made. These steps would be undertaken the morning following the 5pm deadline (by 10am)

## Next steps

- **Determination Vote**
- **Timetable suggested below:**

30 May 2019	Determination Vote from the Grid Code Review Panel
7 June 2019	Appeal Window Opens
28 June 2019	Appeal Window Closes
15 July 2019	Implementation

# Reports to the Authority

None



# Implementation Updates

- **GC0114**
- **GC0118**



# Electrical Standards

## Communication Standards – National Grid ESO





# Governance



# Outputs from Workgroups

As part of our commitment to “Getting the Basics Right” and providing greater transparency across workgroups we will from 1 June 2019 across all the Codes issue:

Summary of Workgroup outputs and Actions Log sent to Workgroup and published on our website

- Within D+5 (where D is date of workgroup meeting)

The image displays two side-by-side screenshots of a document titled 'Code Administrator Meeting Summary' from nationalgridESO. The left screenshot shows the top half of the document, including the title, meeting name, date, contact details for the chair and proposer, and a section for key areas of discussion. The right screenshot shows an 'Actions' table with columns for Number, Action, and Status, containing six rows of placeholder text. Below the table is a note: 'For further information, please contact the Code Administrator.'

Number	Action	Status
1	[insert action]	[insert current status]
2	[insert action]	[insert current status]
3	[insert action]	[insert current status]
4	[insert action]	[insert current status]
5	[insert action]	[insert current status]
6	[insert action]	[insert current status]

We will measure whether or not we are achieving this and the quality of these outputs and review as appropriate - we will provide an update to July Panel

# Workgroup Meeting Quoracy

**We are increasingly seeing quoracy issues for workgroup meetings such that a meeting that was quorate is no longer quorate on the day of the meeting. The following sets out our position on this:**

## Workgroup Meeting Quoracy

- 5 workgroup members are required to set up a workgroup meeting
- In extenuating circumstances resulting in a workgroup member cancelling attendance on the day of meeting (or a no-show) we will facilitate with less than five workgroup members; however this facilitation is in the form of an informal meeting intended to progress discussion where possible.
- All discussions from this “informal meeting” need to be reviewed at the next quorate meeting.
- Additional key decisions such as voting can’t be made at an informal meeting.

**We recognise the ask on the industry at this time but please use alternatives to minimise such “informal meetings”**



# Grid Code Development Forum and Workgroup Day(s)

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## Grid Code Development Forum and Workgroup Day – 8 and 9 May 2019

### GCDF

- Meeting 8 May only – Updating references to Engineering Recommendation G5 (will be raised as GC0129 this month)

### Workgroup Day

- GC0125 (half day on 9 May 2019)
- *GC0123 and GC0126 scheduled but cancelled due to lack of quoracy*

## Next Grid Code Development Forum and Workgroup Day – 12 and 13 June 2019

### Workgroup Days

- GC0123 (if quorate) 12 June 2019
- GC0127 and GC0128 12 June 2019
- GC107/113 13 June 2019



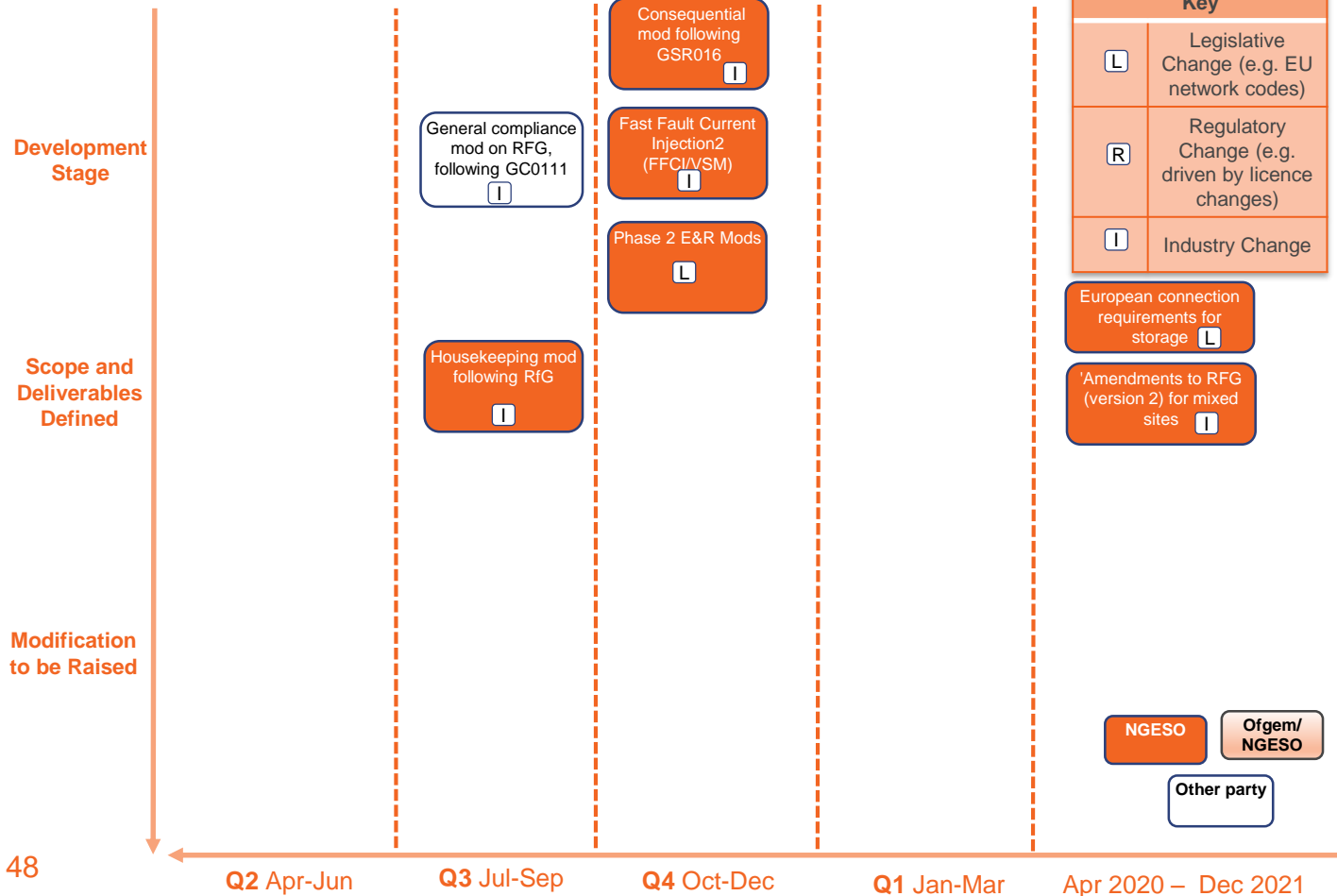
## Standing Items

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

# Horizon Scanning



# Grid Code Horizon Scan\* ~ May 2019



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





Lunch



# Code Administrator Code of Practice Forum Update

# CACoP Update

The Central Modification Register (CMR) and Horizon Scan is currently undergoing review from all Codes to ensure they are both fit for purpose and up to date.

Ofgem have given a steer as to the current role of CACoP stating that breaking down the fragmented nature of different arrangements across Codes, creating co-ordination and increased cross code working is the desire for CACoP in the current framework.

## CACoP meeting on the 24<sup>th</sup> April

- CACoP Forward Work Plan 2019 discussed and amended. Will be approved in May 2019 and will then be shared with industry. The following slide reflects what can be expected this year.
- In addition to the Forward Work Plan CACoP discussed all Code Administrators completing a self-audit against the 14 CACoP Principles. This should allow the sharing of best practice.

# CACoP Forward Work Plan 2019 Deliverables

Month	Deliverable
MAY	Industry Newsletter including first invite to a face to face engagement event
	Each Code Administrator to self – audit against the CACoP principles
JUNE	Each Code Administrator to engage with industry and Panel to advertise the face to face engagement event
JULY	Face to Face engagement event
	Post Engagement Event Review; review the Forward Work Plan to ensure fit for purpose against industry feedback
AUGUST	Webinar for industry participants unable to attend the face to face event
	Podcast to be made available for industry participants
SEPTEMBER	CACoP Forum to review the CACoP Survey Results (Ofgem lead CACoP Survey)
	Second industry newsletter to be issued to industry
OCTOBER	-
NOVEMBER	
DECEMBER	Review the work completed in 2019; consideration of 2020 Forward Work Plan

# Forward Plan Update (Customer Journey)





# Next Panel Meeting

**10am on 27 June 2019 at Faraday House**

**Papers Day – 19 June 2019**