

Grid Code Review Panel

28 March 2019

Welcome

Introductions and Apologies



nationalgridESO



Approval of Panel Minutes

28 February 2019

14 March 2019

Actions Log



Chair's Update



Authority Decisions

GC0106

GC0118



New Modifications

- GC0123 – Clarifying references to NGET and Relevant Transmission Licensees
- GC0124 – Critical Friend review period for submission of new modifications
- GC0125 - EU Code Emergency & Restoration: Black Start testing requirements for Interconnectors
- GC0126 - Implementing Profiled Stable Import and Export Limits, and reversing unimplemented aspects of GC0068



GC0123 – Clarifying references to NGET and Relevant Transmission Licensees

Greg Heavens
NGESO



Modification Summary

Defect

GC0122 reverted several instances of 'The Company', as changed in the facilitating modification for legal separation, GC0115, back to 'NGET' as they had been prior to GC0115. In a small number of cases it was noted that the requirements were more properly equally applicable to any of the transmission owners. It is therefore proposed that these references should read "the Relevant Transmission Licensee" which also reflects custom and practice since BETTA.

The opportunity is also being taken to correct a small number of other pre-existing typographical errors noted in the panel discussion of GC0122.

Solution

The Proposer has provided legal text drafting to recommend changing several instances of NGET to Relevant Transmission Licensee

The following sections of the Grid Code will be affected by this modification (full details are set out in the table in section 9 of the Proposal Form and the legal text):

- Glossary and Definitions
- Connection Conditions
- European Connection Conditions
- Demand Response Services
- Data Registration Code

Proposer Recommended Governance Route

The Proposer recommends that this modification follows the self-governance route with Workgroup.

Proposer Recommended Timeline

Date	Activity
May – August 2019	GC0123 Workgroup meetings
September 2019	Workgroup Report submitted to Panel
October 2019	Code Administrator Consultation (15 working days) October 2019
w/c 18 November 2019	Draft Grid Code Modification Self Governance Report will be presented to Panel
28 November 2019	Modification Panel Self-Governance vote
29 November / 20 December 2019	Appeal Window Opens (15 Working Days)
6 January 2020	Implementation

Does the Panel agree that GC0123 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

Assuming the Panel agrees this is a self-governance modification with a workgroup :

- The Code Administrator would open the Workgroup nomination window for 15 working days
- First anticipated Workgroup meeting would be held w/c 6 May 2019 (Workgroup Day)

GC0124 – Critical Friend review period for submission of new modifications

Chrissie Brown
Code Administrator



Modification Summary

Defect

The National Grid Electricity System Operator Code Administrator does not have sufficient time when a modification is raised to carry out their Critical Friend duties to deliver a better service to raise the quality of modifications. Providing a Critical Friend review is a principle of the Code Administrator Code of Practice (CACoP) that ensures all modification submitted to Panel are fit for purpose.

Why?

Amendments to our codes are at the highest level that they have ever been. Industry need to understand what the potential impacts of the modifications are going to be as soon as they are raised, what the Consumer impacts are and also clearly understand the issue and intent. This modification will unlock and facilitate this ensuring a step change in the quality of modifications being tabled at our Panels

Solution

- Attended GCDF
- Best practice
- Five working days proposed under this modification

Proposer Recommended Governance Route

The Proposer recommends that this modification should be subject to self-governance and be issued directly to Consultation.

Proposer Recommended Timeline

Date	Activity
28 March 2019	Modification presented at Grid Code Panel
5 April 2019/8 May 2019	Code Administration Consultation issued to the Industry (20 working days)
22 May 2019	Draft Grid Code Modification Self-Governance Report presented to Panel
30 May 2019	Modification Panel Self-Governance vote
7 June 2019/28 June 2019	Appeal window opens (15 working days)
15 July 2019	Decision implemented in Grid Code (10 working days following appeal window closure)

Does the Panel agree that GC0124 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 that the modification be issued directly to Consultation?

If so:

- The Code Administrator will issue the Code Administrator Consultation as per the proposed timetable, on **5 April 2019 for 20 working days**
- Self-Governance statement to be issued to the Authority (if agreed that it meets the criteria)
- Panel Self-Governance Vote to be carried out at May 2019 Panel meeting

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

Rachel Woodbridge-Stocks
NGESO



Modification Summary

This modification seeks to align the GB Grid Code with the European Emergency and Restoration Code, specifically in relation to Black Start testing for Interconnectors.

Defect

The Grid Code doesn't currently include black start testing requirements for interconnectors, whereas the [Emergency and Restoration Code \(E&R\)](#) does. Therefore, the Grid Code needs to be aligned to the European Network Code to reflect these requirements.

Solution

It will be specified in OC5.7 that HVDC systems delivering a black start service will be required to execute a black start capability test at least every three years and will state how this needs to be done.

Proposer Recommended Governance Route

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

Proposer Recommended Timeline

Date	Activity
May – July 2019	GC0126 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

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 GC0125 (15 working days)
- First Workgroup meeting anticipated to take place on May 2019 Workgroup Day

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

Greg Heavens
NGESO



Modification Summary

Defect

GC0068 and BSC P297 were raised in 2013 to take advantage of some of the expected functionality of the Electricity Balancing System (EBS). Certain aspects of GC0068, notably the Reactive and Frequency Report Fax Forms, were implemented following the Authority's Decision dated 3 March 2014. The remaining changes were to be implemented following the go-live of the EBS system. Although the Scheduling component of EBS has now been implemented it is not certain when the additional functionality required to fulfil GC0068 and BSC P297 will be delivered.

Our CBA concluded that there were consumer benefits in implementing profiled Stable Import Limits (SIL) and Stable Export Limits (SEL) and a majority of the stakeholders that responded supported this.

Solution

This Modification seeks to implement the time varying profiles SIL and SEL introduced in GC0068.

It will also reverse the unimplemented aspects of GC0068. The ESO will also raise a BSC issues group to consider these other aspects and whether they will derive a customer benefit. Further proposals will be brought forward if that process demonstrates a consumer benefit.

Proposer Recommended Governance Route

The Proposer recommends that this modification follows the self-governance route with Workgroup.

Proposer Recommended Timeline

Date	Activity
May – August 2019	GC0123 Workgroup meetings
September 2019	Workgroup Report submitted to Panel
October 2019	Code Administrator Consultation (15 working days) October 2019
w/c 18 November 2019	Draft Grid Code Modification Self Governance Report will be presented to Panel
28 November 2019	Modification Panel Self-Governance vote
29 November / 20 December 2019	Appeal Window Opens (15 Working Days)
6 January 2020	Implementation

Does the Panel agree that GC0126 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 self-governance modification with a workgroup?

If so:

- The Code Administrator would open the Workgroup nomination window for 15 working days
- First anticipated Workgroup meeting would be held w/c 6 May 2019 (Workgroup Day)



In Flight Modification Updates

GC0111 - Fast Fault Current Injection Specification Text

- **Last meeting held:** 11 January 2019
- **Workgroup Report due:** 28 February 2019
- **Status:** Off track to meet the Panel Workgroup report
- **Next steps:** Workgroup Vote to take place in March 2019 and the report to be brought to the March GCRP meeting.
- **Panel action required:** 1 month extension requested due to late changes to the solution
- **More information on modification:**
<https://www.nationalgrideso.com/codes/grid-code/modifications/gc0111-fast-fault-current-injection-specification-text>

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:** 3 December 2018 (6 January didn't meet quoracy)
- **Workgroup Report due:** August 2019
- **Status:** On track to meet the Panel timetable for the Workgroup report
- **Next steps:** Workgroup to meet 27 March to further develop the modification and proceed to Workgroup Consultation
- **Panel action required:** No action requested of Panel
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0109-open-transparent-non-discriminatory-and-timely-publication>

GC0096 - Energy Storage

- **Last meeting held:** 13 March 2019
- **Workgroup Report due:** 28 March 2019
- **Status:** Off track to meet the Panel Workgroup report.
- **Next steps:** Workgroup Vote took place 13 March 2019, however, the final legal text and Workgroup report has yet to be fully signed off by the Workgroup. This will be ready for the next April 2019 Panel.
- **Panel action required:** 1 month extension request to improve the quality of the Workgroup report.
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0096-energy-storage>

GC0103 - Introduction of Harmonised Applicable Electrical Standards

- **Last meeting held:** 8 February 2019
- **Workgroup Report due:** 25 April 2019
- **Status:** Currently off track to meet the Panel timetable.
- **Next steps:** NGET have provided feedback on the draft solution, workgroup to meet 11 April to further progress this solution.
- **Panel action required:** 3 month extension requested of the 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: 15 March 2019**
- **Workgroup Report due: 28March 2019**
- **Next steps: The Workgroup met on 15 March 2019 to progress this modification.**
- **Panel action required: 3 month extension is requested of the Panel in accordance with the next slide.**

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>

Recommended Timeline

Activity	Date
Workgroup meeting to devise and finalise the Workgroup Consultation questions	10 April 2019
Workgroup Consultation (15 Working days)	w/c 15 April 2019
Review Workgroup consultation responses	Mid/end May 2019
Finalise the Workgroup report and legal text	June 2019
Vote	June 2019
Workgroup report to the Panel	27 June 2019

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

- **Last meeting held:** 14 March 2019
- **Workgroup Report due:** July 2019
- **Status:** On track to meet Workgroup report
- **Next steps:** Workgroup further developing the solutions from the initial assessment.
- **Panel action required:** No action requested of 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:** 28 March 2019
- **Status:** Off-track to meet the current Panel timetable in relation to the Workgroup Report to Panel. This was due further work needed on the legal text and Workgroup report.
- **Next steps:** Currently seeking the next Workgroup date for the vote. Based on workgroup availability, this is likely to be May for the next meeting.
- **Panel action required:** 2 month extension requested of the Panel to enable the Workgroup to conclude and vote on this Workgroup.
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0105-system-incidents-reporting>

Blockers on Modification Progression – proposed quarterly update template

Description	Occurrences			Commentary
	Jan-19	Feb-19	Mar-19	
Impact of Open Governance (Mods to Code Admin)				
NGET Led delay (need to be specific)	1	1		1) GC0103 solution change (also applies to unanticipated complexity of mod)
Code Admin Led Delay				
Availability of WG/Industry	1	2	1	1) GC0107/GC0113 proposer availability 2) GC0109 quoracy 3) GC0105 gaining quoracy to vote
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




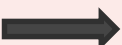

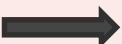

Complexity The defect addressed by the proposed modification has implications for many different areas of the energy system which need to be taken into consideration throughout the process. The technical complexity and cross code impact of the modification will most likely require significant use of 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
	18/04/2018	GC0111: Fast Fault Current Injection (FFCI) specification text	Linked to European Network Codes
	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 **
	01/05/2016	GC0096: Storage, Definition and Assignment of Technical Requirements for Storage Technologies	Long standing Modification
	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	Proposer not ready to start progress until later in the year. **

Fast Track Self Governance Modifications

Date Raised	Modifications title	Status	Anticipated implementation date subject to no appeals
20/02/2019	GC0120: National Grid legal separation changes to clarify Grid Code responsibilities and consequential changes	Open for appeal, which closes on	1 April 2019
14/02/2018	GC0122: Amending references to NGET and the Company within the Grid Code following previous modifications	Open for appeal, which closes on 4 April 2019	5 April 2019

Self Governance Modifications

Date Raised	Modifications title	Status	Anticipated Implementation Date
18/04/2018	GC0121: Grid Code changes in the event the UK leaves the EU without an agreement	Code Administrator Consultation closed on 18 March 2019, Panel Recommendation vote on DFMR on 28 March 2019	24 April 2019

Lunch Break



Workgroup Reports

GC0111

GC0111 Background

- **GC0111** was raised by Mike Kay on behalf of the ENA and was submitted to the Grid Code Modification Panel for their consideration in May 2017
- No Workgroup Consultation took place
- No alternatives raised (WAGCM)
- The Workgroup unanimously agreed that the Original better facilitates the Grid Code objectives and should be implemented.

GC0111 Terms of Reference

Specific Area	Location in the report
a) Implementation and costs	Section 3 and 4
b) Review draft legal text should it have been provided. If legal text is not submitted within the Modification Proposal the Workgroup should be instructed to assist in the developing of the legal text.	Section 4 and 8
c) Consider whether any further Industry experts or stakeholders should be invited to participate within the Workgroup to ensure that all potentially affected stakeholders have the opportunity to be represented in the Workgroup. Demonstrate what has been done to cover this clearly in the report	Section 4
d) Consider materiality of change	Section 4
e) Workgroup consultation and whether required	Section 4
f) Review the trigger voltage and FRT requirements and whether compatible	Section 4

GC0111

The Panel is invited to:

- Consider whether the Workgroup has met its terms of reference
- Agree for GC0111 to proceed to Code Administrator Consultation

GC0111 Timeline

28 March 2019	Workgroup Report presented to Grid Code Review Panel
5 April 2019	Code Admin Consultation Report issued (15 Working Days - close date 30 April 2019)
w/c 20 May 2019	Draft Self Governance Report issued to Industry and Panel (5 Working Days)
30 May 2019	Draft Self Governance Report presented to Panel and Recommendation Vote carried out
31 May 2019	Appeal Window Opens
21 June 2019	Appeal Window Closes
5 July 2019	Implementation (10 working days)

Draft Final Modification Reports

None



Reports to the Authority

GC0114



Implementation Updates

GC0106



Electrical Standards

None



Governance





Grid Code Development Forum and Workgroup Day

Grid Code Development Forum and Workgroup Day(s)

Grid Code Development Forum and Workgroup Day – 13 & 14 March 2019

GCDF

- GB Data Management Proposal
- Emergency and Restoration Presentation
- Code Administrator Update

Workgroup Day

- GC0105 Workgroup meeting (13 March)
- GC0096 Workgroup vote (13 March)
- GC0111 Workgroup vote (13 March)
- GC0117 Workgroup meeting (14 March)

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

Workgroup Days

- GC0117 (9 April 2019 – half day) & GC0107/GC0113 (9 April 2019 – half day)
- GC0103 (10 April 2019 – half day)



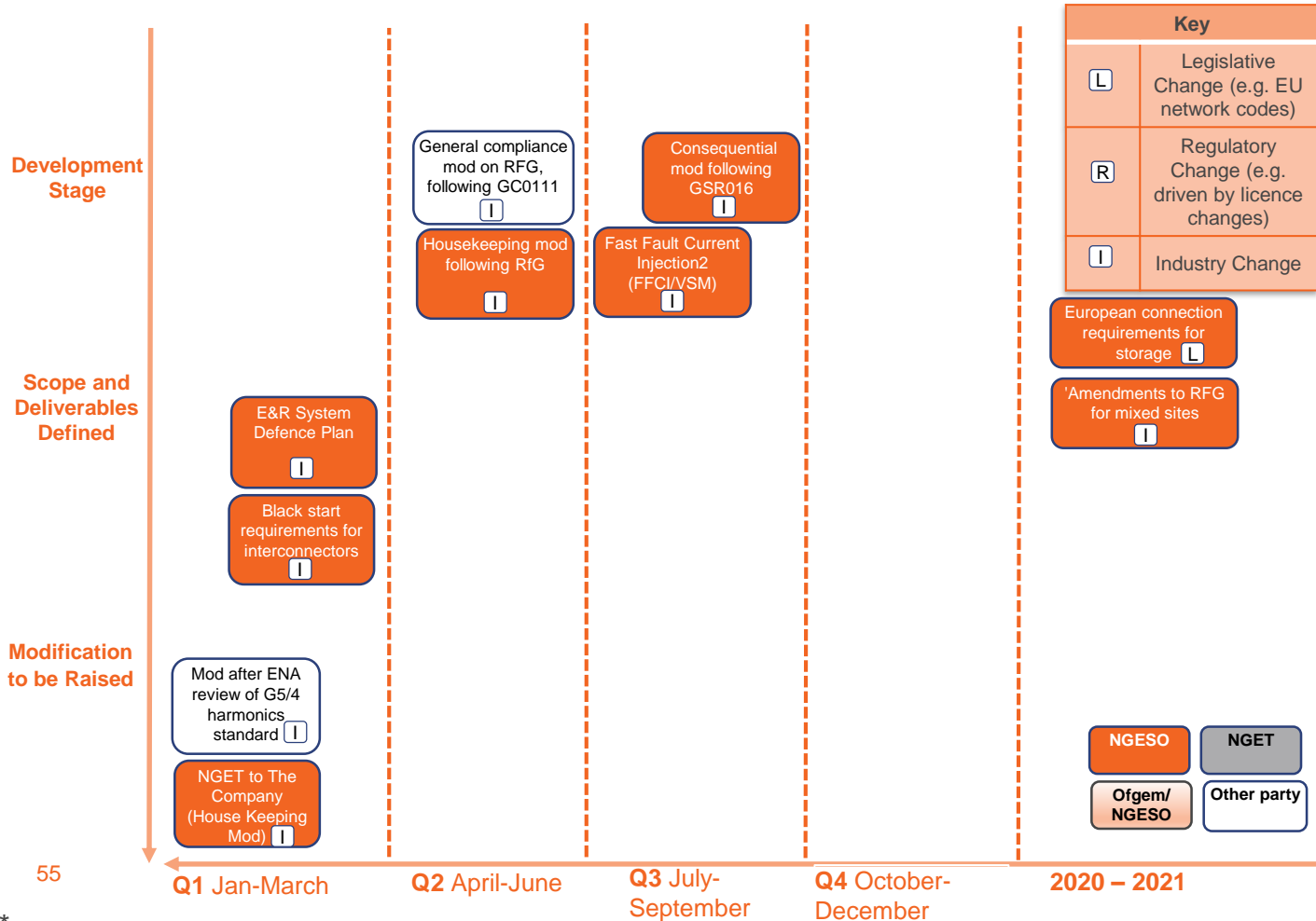
Standing Items

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

Horizon Scanning



Grid Code Horizon Scan* ~ March 2019



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



Next Panel Meeting

10am on 25 April 2019 at Faraday House

Papers Day – 15 April 2019 (early due to the Bank Holidays)

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