



# STC Panel

Wednesday 31 May 2023

Online Meeting via Teams

# WELCOME



# Minutes

## Approval of Panel Minutes from the Meeting held

26 April 2023



# Review of Actions within Action Log



# Authority Decisions and Update



## Decisions Received since last Panel meeting

None

## Decisions Pending

- ❑ **CM078 - *Connections Triggering Distribution Impact Assessment*** - Expected decision date of this and related CUSC Modification (CMP328) was 14 February 2023, decision on **CMP328** received 14 February 2023 and was sent back by Ofgem for further work/clarification, no decision received on **CM078**.
- ❑ **CM080 – *Transmission Impact Assessment process*** - Expected decision date of this and related CUSC Modification (CMP298) is 26 April 2023
- ❑ **CM088 – *Fault Ride Through Definition*** – Final Modification Report sent to Ofgem 12 April 2023. Expected decision date TBC



# Draft STC/STCP Modifications

PM0133 – Pathfinder Feasibility Studies





## **Draft Proposal- PM0133: Pathfinder Feasibility Studies**

## What is the issue?

The code recognises TOs supporting The Company in providing feasibility studies for Customer connections but the feasibility support needed has evolved to include support on the pathfinder and other projects that fall within The Company's role.

Unlike with the feasibility for connections there is no express obligation or defined process for carrying out/contracting for other feasibility studies within the code.

Following the completion of several pathfinder projects it has been identified that standardising the process would provide efficiencies to all parties involved by reducing the administrative burden and delays caused by uncertainty and the need to agree contract forms/terms each time.



## Why change?

Improving the way in which we formally contract with TOs for feasibility studies that enable long term procurement exercises such as Pathfinders by clarifying and simplifying the process to ensure the effective delivery of work on consistent terms for feasibility studies including, where applicable, support on the technical assessment of bids.

Building the process and fixed Terms and Conditions into the STCP will help in clarifying obligations on the TOs / ESO when conducting feasibility studies and help govern the overall relationship with TO and reduce the resource required to create individual contracts for each pathfinder project.

## Proposers Solution

It is proposed to specifically define the pathfinder feasibility process within STCP17-1 in a similar manner to the connection feasibility study process .

This will include the process to be followed, all parties responsibilities alongside standardised terms and conditions.

## Ask of Panel

Do you support this approach?

Do you believe an additional STC change is required to include an obligation or will the STCP change be sufficient?

Should this be expanded for feasibility studies required other than Pathfinders?



# **New STC/STCP Modifications**

**PM0131 - STCP14-1 update for revised TO licence  
special conditions terminology**

**PM0132 - Implementation of Emergency and  
Restoration Code Phase II**

**CM091 - Implementation of Emergency and  
Restoration Code Phase II**

# Critical Friend Feedback – PM0131

Code Administrator comments	Amendments made by the Proposer
<p>Added timeline.</p> <p>Suggested minor amendments to title.</p> <p>Suggested adding some commentary to explain why an STC objective was positive.</p>	<p>Proposer accepted majority of the amendments made by the Code Administrator, but made some further minor amendments to the title.</p>



# Emergency and Restoration Code – Phase II

**CM091/PM0132**

Presentation to STC Panel

May 2023



# Critical Friend Feedback – CM091 & PM0132

Code Administrator comments	Amendments made by the Proposer
<p>Suggested re-wording and shortening modification over-view.</p> <p>Proposed minor changes and re-wording of defect.</p> <p>Suggested restructuring/shortening the solution as well as removing any duplication.</p> <p>Added timelines and requested clarity on the implementation approach given links to GC0148/GC0156.</p> <p>Sought clarification on interactions with other codes and suggested highlighting that CM091/PM0132 will be progressed together in a joint workgroup.</p> <p>Added links to reference documents/other modifications.</p> <p>Defined additional acronyms.</p> <p>Suggested amending status summary and expected impacts on PM0132 so</p>	<p>Proposer accepted all amendments made by the Code Administrator.</p>

# Proposed timeline for CM091/PM0132 - (1 Workgroup before consultation, subject to Panel agreement that the DFMR can be submitted as a late paper in October 2023)

Milestone	Date	Milestone	Date
Proposal Presented to Panel	31 May 2023	Panel sign off that Workgroup Report has met its Terms of Reference	27 September 2023
Workgroup Nominations (15 Working Days)	02 June 2023 – 23 June 2023	Code Administrator Consultation	27 September – 18 October 2023
Workgroup 1 – Discuss proposal, review terms of reference, solution, legal text, identify any possible alternative solutions and agree next steps.	6 <sup>th</sup> July 2023	Draft Final Modification Report (DFMR) issued to Panel	20 October 2023 (If Panel agree that this can be submitted as a late paper, papers day is the 17 October 2023)
Showstopper meeting - to finalise Workgroup Consultation: Agree Workgroup Consultation questions and finalise report.	21 July 2023	Panel undertake DFMR recommendation vote	25 October 2023
Workgroup Consultation (15 Working Days)	26 July 2023 – 16 August 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	26 October - 02 November 2023
Workgroup 2 - (Post Workgroup Consultation) Review / assess Workgroup consultation responses. Finalise solution(s) and legal text..	30 August 2023	Final Modification Report issued to Ofgem	03 November 2023
Showstopper meeting: Review Workgroup Report, agree that Terms of Reference have been met and hold Workgroup Vote	13 September 2023	Ofgem decision	TBC
Workgroup Report issued to Panel	19 September 2023	Implementation Date	10 working days after an authority decision.

# Proposed timeline for CM091/PM0132 - (1 Workgroup before consultation and DFMR submitted to Nov Panel)

Milestone	Date	Milestone	Date
Proposal Presented to Panel	31 May 2023	Panel sign off that Workgroup Report has met its Terms of Reference	27 September 2023
Workgroup Nominations (15 Working Days)	02 June 2023 – 23 June 2023	Code Administrator Consultation	29 September – 20 October 2023
Workgroup 1 – Discuss proposal, review terms of reference, solution, legal text, identify any possible alternative solutions and agree next steps.	6 <sup>th</sup> July 2023	Draft Final Modification Report (DFMR) issued to Panel	21 November 2023
Showstopper meeting - to finalise Workgroup Consultation: Agree Workgroup Consultation questions and finalise report.	21 July 2023	Panel undertake DFMR recommendation vote	29 November 2023
Workgroup Consultation (15 Working Days)	26 July 2023 – 16 August 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	30 November 2023 - 07 December 2023
Workgroup 2 - (Post Workgroup Consultation) Review / assess Workgroup consultation responses. Finalise solution(s) and legal text..	30 August 2023	Final Modification Report issued to Ofgem	08 December 2023
Showstopper meeting: Review Workgroup Report, agree that Terms of Reference have been met and hold Workgroup Vote	13 September 2023	Ofgem decision	TBC
Workgroup Report issued to Panel	19 September 2023	Implementation Date	10 working days after an authority decision.

# Proposed timeline for CM091/PM0132 (2 Workgroups before consultation)

Milestone	Date	Milestone	Date
Proposal Presented to Panel	31 May 2023	Panel sign off that Workgroup Report has met its Terms of Reference	25 October 2023
Workgroup Nominations (15 Working Days)	02 June 2023 – 23 June 2023	Code Administrator Consultation	26 October – 16 November 2023
Workgroup 1 – Understand / discuss proposal and solution, note the scope and identify any possible alternative solutions, agree timeline and review terms of reference, agree next steps	6 <sup>th</sup> July 2023	Draft Final Modification Report (DFMR) issued to Panel	21 November 2023
Workgroup 2 – Finalise solution, legal text, and review terms of reference.	04 August 2023	Panel undertake DFMR recommendation vote	29 November 2023
Showstopper meeting - to finalise Workgroup Consultation: Agree Workgroup Consultation questions and finalise report.	18 August 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	30 November 2023 - 07 December 2023
Workgroup Consultation (15 Working Days)	23 August 2023 – 14 September 2023	Final Modification Report issued to Ofgem	08 December 2023
Workgroup 3 - (Post Workgroup Consultation) Review / assess Workgroup consultation responses. Finalise solution(s) and legal text..	26 September 2023	Ofgem decision	TBC
Showstopper meeting: Review Workgroup Report, agree that Terms of Reference have been met and hold Workgroup Vote	10 October 2023	Implementation Date	10 working days after an authority decision.
Workgroup Report issued to Panel	17 October 2023		

# Proposed timeline for CM091/PM0132 (3 Workgroups before consultation)

Milestone	Date	Milestone	Date
Proposal Presented to Panel	31 May 2023	Panel sign off that Workgroup Report has met its Terms of Reference	29 November 2023
Workgroup Nominations (15 Working Days)	02 June 2023 – 23 June 2023	Code Administrator Consultation	01 December – 22 December 2023
Workgroup 1 – Understand / discuss proposal and solution, note the scope and identify any possible alternative solutions, agree timeline and review terms of reference, agree next steps	6 <sup>th</sup> July 2023	Draft Final Modification Report (DFMR) issued to Panel	23 January 2024
Workgroup 2 & 3 – Finalise solution, legal text, and review terms of reference.	04 August 2023 & 05 September 2023	Panel undertake DFMR recommendation vote	31 January 2024
Showstopper meeting - to finalise Workgroup Consultation: Agree Workgroup Consultation questions and finalise report.	19 September 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	02 February 2024 - 09 February 2024
Workgroup Consultation (15 Working Days)	22 September 2023 – 13 October 2023	Final Modification Report issued to Ofgem	12 February 2024
Workgroup 3 - (Post Workgroup Consultation) Review / assess Workgroup consultation responses. Finalise solution(s) and legal text..	31 October 2023	Ofgem decision	TBC
Showstopper meeting: Review Workgroup Report, agree that Terms of Reference have been met and hold Workgroup Vote	14 November 2023	Implementation Date	10 working days after an authority decision.
Workgroup Report issued to Panel	21 November 2023		



# High Level Objectives of the GC0148 Workgroup

- Address those Articles of EU Emergency and Restoration Code (E&R) which have a Compliance Deadline of 18<sup>th</sup> December 2022
  - Art 15(5) – 15(8) – Low Frequency Demand Disconnection
  - Art 41 – Communications Systems
  - Art 42 (1)(2) and (5) – Critical Tools and Facilities
- Address the outstanding issues of E&R Phase I introduced in 2019
  - The Treatment of Electricity Storage Modules during low System frequencies
  - How non CUSC parties fall under the remit of E&R
- Consider the introduction or otherwise of Distributed Re-Start
- The GC0148 solution comprises the Original and two Alternatives (WAGM1 and WAGM2) which both relate to System State (WGAM 1 – includes the original plus Emergency, Blackout and Restoration States) and (WAGM 2 – includes the original plus Normal, Alert, Emergency, Blackout and Restoration States)

# Documents included in the GC0148 Consultation

- System Defence Plan (updated to include Distributed Re-Start)
- System Restoration Plan (updated to include Distributed Re-Start)
- Test Plan (updated to include Distributed Re-Start)
- Control Telephony Standard
- Legal Text – Critical Tools and Facilities and Governance Arrangements
- Legal Text – Electricity Storage Modules under low System Frequencies
- Legal Text – Distributed Re-Start
- Draft Distributed Re-Start Contracts
- Notification letters
- Code Mapping

# Proposed High Level Grid Code Changes

Grid Code Section	Summary of Update
Glossary and Definitions	Introduction of new definitions – changes to some existing definitions – Eg Critical Tools and Facilities and Test Plan
Planning Code	Data reporting for Electricity Storage Modules when under low System Frequency Conditions
Connection Conditions	Minor amendments to the telephony requirements and the introduction of Critical Tools and Facilities – 72 hour resilience
European Connection Conditions	Minor amendments to the telephony requirements, introduction of Critical Tools and Facilities – 72 hour resilience and requirements on Electricity Storage Modules transitioning from import to export under low frequencies
European Compliance Processes	Simulations and tests on Electricity Storage Modules transitioning from import to export under low frequencies
OC4	New OC - Introduction of System State to reflect WAGM1 and WAGM2
OC5	Minor Amendment to OC5.5.3.3
OC6	Amendments to OC6.6.6 relating to low frequency demand disconnection especially in relation to Electricity Storage Modules
General Conditions	Governance Process around the System Defence Plan, System Restoration Plan and Test Plan

# Current Status (1)

- Distributed Re-Start and associated work (eg Contracts) removed from the GC0148 work and moved into the GC0156 modification
- Grid Code Workgroup Consultation held between 28 March and 27 April 2022
- Following the Workgroup Consultation two WAGM's were introduced to reflect System State.
- The Legal Text was reviewed on 28<sup>th</sup> May 2022 and again on 11 July 2022 following identification of an error in the baseline legal text
- The GCRP voted in favour of the modification in July and the Code Administrator Consultation was held from 3 August 2022 – 5<sup>th</sup> September 2022 – Two responses were received both in favour of the modification
- The issue was presented to the September GCRP and it was submitted to Ofgem for determination in October 2022 but was sent back to the Grid Code Review Panel in January 2023 when the ESO notified Ofgem and BEIS of an issue with Aggregators when identified following a GC0156 meeting in November 2022

## Current Status (2)

- After further GC0148 Workgroup Meetings in March 2023, a presentation to the ADE (Association of Decentralised Energy) and acceptance at the Grid Code Review Panel in March, GC0148 was submitted for the Code Administrator Consultation (3 April 2023 – 4<sup>th</sup> May 2023)
- We are now formally raising the consequential GC0148 mod at the STC Panel in May 2023
- This now interacts with GC0156 (Implementation of the Electricity System Restoration Standard)
- Unfortunately due to the uncertainty associated with GC0148, the consequential modification process for GC0156 (CM089) have already been raised at the STC Panel ahead of GC0148 with the drafting of CM089 already underway.
- The changes being proposed to the STC and STCP's in respect of GC0148 will be a subset of those for GC0156 but in summary will be limited to Definitions and Critical Tools and Facilities



# Expected Changes to the STC

- As part of this process some changes will be required to the STC and STCP's most of which are consequential
- These are minor as most of the changes apply to "Users" through the Grid Code and Distribution Code
- STC Changes
  - Section D (Planning Coordination)
  - Section J (Interpretation and Definitions)
  - Section K (Technical, Design and Operational Criteria and Performance for Offshore Transmission Systems)

# Expected Changes to the STCPs

- Changes to the STCPs are anticipated to be minor but expected to include
  - STCP 04-5 (Operational Telephony)
  - STCP 06-4 (Contingency Arrangements)
  - STCP 16-1 (Investment Planning)
  - STCP 18 -1 (Connection and Modification Application)
  - Others\*?
- \*Note – Some STCP's may need further assessment to see if that have an impact on Critical Tools and facilities (eg STCP 04-6 - Offshore Datalink Functional Specification for Telecontrol Communications Interface)

# Request of STC Panel

- To be aware of the changes introduced through Grid Code modification GC0148
- Most of the changes apply to Grid Code User's though some (e.g. Critical Tools and Facilities) will apply to Transmission Licensees
- The ESO will undertake a review of the STC and STCP's to ensure consistency with the GC0148 changes and raise the necessary STC / STCP mods to reflect these
- The changes to the STC and STCP's will be a subset of the modifications proposed as a result of CM089/PM0128 (Consequential changes arising from GC0156)
- Consider if the STCP Amendments are material – the only area where this is expected is in relation to Critical Tools and Facilities though note also the interaction with CM089
- Propose this modification proceeds to Workgroup noting the interaction with CM089.



# **In flight Modification Updates / Potential New Modifications**

**CM079 - Consideration of STC/STCP changes in relation to CMP330/374**

**CM085 – Update/Terms of Reference**

**CM087 – Introducing Connections process to facilitate Competitively Appointed Transmission Owners**



## Workgroup Report(s)

None





## Draft Final Modification Report(s)

None



**Any Other Business**

**None**

# Next Panel Meeting

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**10am on 28 June 2023**

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**Papers Day – 20 June 2023**

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**Modification Proposals to be submitted  
by – 13 June 2023**

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# Close



**Deborah Spencer**  
STC Panel Chair