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MP138 ‘DCC Service Testing in ETAD’

Annex A

Legal text – version 1.1

About this document

This document contains the redlined changes to the SEC that would be required to deliver this Modification Proposal.

Section A ‘Definitions and Interpretation’

These definitions will be included in alphabetical order into the latest version of Section A at the time of implementation.

GFI Testing

means a testing service provided by the DCC to enable eligible persons to test the interoperability of Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Communications Hubs to be provided as part of the Testing Services, such that those Devices are able to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification.

GFI Testing Tools

means a product provided by the DCC to enable Testing Participants to test their products against an interpretation of DCC Total Systems, including an interpretation of the GBCS standard, such that those Devices are able to respond to Commands received in accordance with the requirements defined in the GB Companion Specification.

Interoperability and Innovation Events

means the events held by the DCC from time to time at its discretion to provide Device Manufacturers with a platform to test connectivity, interoperability, interchangeability and functionality between HAN Devices.

RF Noise Testing

means a testing service provided by the DCC to enable Device Manufacturers to test their Devices and ensure they meet the requirements of the ICHIS, so they do not impact the WAN or HAN performance.

Wired Instrumented Test Communications Hubs

means a Test Communications Hub which is capable of sending WAN Commands through a wired interface during GFI Testing.

Section H 'DCC Services'

These changes have been redlined against Section H version 12.0.

Amend Section H8 as follows:

Maintenance of the DCC Systems

H8.2 The DCC shall (insofar as is reasonably practicable) undertake Maintenance of the DCC Systems in such a way as to avoid any disruption to the provision of the Services (or any part of them).

H8.3 Without prejudice to the generality of Section H8.2, the DCC shall (unless the Panel agrees otherwise and subject to any contrary provisions in the SEC Subsidiary Documents applying in relation to the SMETS1 SM WAN and/or the Systems of the SMETS1 Service Providers):

- (a) undertake Planned Maintenance of the DCC Systems only between 20.00 hours and 08.00 hours;
- (b) limit Planned Maintenance of the Self-Service Interface to no more than four hours in any month; and
- (c) limit Planned Maintenance of the DCC Systems generally (including of the Self- Service Interface) to no more than six hours in any month.

H8.4 At least 20 Working Days prior to the start of each month, the DCC shall make available to Parties, to Registration Data Providers and ~~to the Panel to the Technical Architecture and Business Architecture Sub Committee~~ a schedule of the Planned Maintenance for that month (subject to any contrary provisions in the SEC Subsidiary Documents applying in relation to the SMETS1 SM WAN and/or the Systems of the SMETS1 Service Providers). Such schedule shall set out (as a minimum) the following:

- (a) the proposed Maintenance activity (in reasonable detail);
- (b) the parts of the Services that will be disrupted (or in respect of which there is a Material Risk of disruption) during each such Maintenance activity;
- (c) the time and duration of each such Maintenance activity; and
- (d) any associated risk that may subsequently affect the return of normal Services.

H8.5 The Panel may (whether or not at the request of a Party and subject to any contrary provisions in the SEC Subsidiary Documents applying in relation to the SMETS1 SM WAN and/or the Systems of the SMETS1 Service Providers) request that the DCC reschedules any Planned Maintenance set out in a monthly schedule provided pursuant to Section H8.4. In making any such request, the Panel shall provide the reasons for such request to the DCC in support of the request. The DCC will take all reasonable steps to accommodate any such request.

- H8.6 As soon as reasonably practicable after the DCC becomes aware of any Unplanned Maintenance, the DCC shall notify the ~~Panel Technical Architecture and Business Architecture Sub-Committee~~, Parties and (insofar as they are likely to be affected by such Unplanned Maintenance) Registration Data Providers of such Unplanned Maintenance (and shall provide information equivalent to that provided in respect of Planned Maintenance pursuant to Section H8.4).
- H8.7 During the period of any Planned Maintenance or Unplanned Maintenance, the DCC shall provide Parties and (insofar as they are likely to be affected by such maintenance) Registration Data Providers with details of its duration and the expected disruption to Services to the extent they differ from the information previously provided.

DCC Internal System Changes

- H8.8 Where the DCC is proposing to make a change to DCC Internal Systems, the DCC shall:

- (a) undertake an assessment of the likely impact on:
 - (i) Parties in respect of any potential disruption to Services; and/or
 - (ii) RDPs in relation to the sending or receipt of data pursuant to Section E (Registration Data),

that may arise as a consequence of the Maintenance required to implement the contemplated change;

- (b) where such assessment identifies that there is a Material Risk of disruption to Parties and/or RDPs, consult with Parties and/or RDPs (as applicable) and with the ~~Panel Technical Architecture and Business Architecture Sub-Committee~~ regarding such risk;
- (c) provide the Parties and RDPs the opportunity to be involved in any testing of the change to the DCC Internal Systems prior to its implementation; and
- (d) undertake an assessment of the likely impact of the contemplated change upon the security of the DCC Total System, Smart Metering Systems, and the Systems of Parties and/or RDPs.

Release Management

- H8.9 The DCC shall ensure that it plans, schedules and controls the building, testing and deployment of releases of IT updates, procedures and processes in respect of the DCC Internal Systems and/or the Parse and Correlate Software in accordance with a policy for Release Management (the “DCC Release Management Policy”).

- H8.10 The DCC shall ensure that the DCC Release Management Policy:

- (a) defines the scope of the matters that are to be subject to the policy in a manner consistent with the Service Management Standards;
- (b) includes a mechanism for setting priorities for different types of such matters;
- (c) defines periods of change-freeze where no such matters may be implemented; and

- (d) defines periods of notice to be given to Parties and RDPs prior to the implementation of such matters.

H8.11 The DCC shall make the DCC Release Management Policy available to Parties, RDPs and ~~the the Panel~~~~Technical Architecture and Business Architecture Sub-Committee~~. The DCC shall consult with Parties, RDPs and the ~~Technical Architecture and Business Architecture Sub-Committee~~ ~~before~~~~Panel before~~ making any changes to the DCC Release Management Policy.

H8.12 The DCC's obligation under Section H8.11 is in addition to its obligations in respect of Planned Maintenance and changes to DCC Internal Systems to the extent that the activity in question involves Planned Maintenance or changes to DCC Internal Systems.

Amend Section H10 as follows:

Business Continuity and Disaster Recovery Tests

H10.11 The DCC shall (subject to any contrary provisions in the SEC Subsidiary Documents applying in relation to the SMETS1 SM WAN and/or the Systems of the SMETS1 Service Providers):

- (a) from time to time, and at least once each year, carry out a Business Continuity and Disaster Recovery Test in order to assess whether the Business Continuity and Disaster Recovery Procedure remains suitable for achieving the objectives described at Section H10.9; and
- (b) following any such test, report to the Panel and the Authority on the outcome of the test, and on any proposals made by the DCC in relation to the Business Continuity and Disaster Recovery Procedure having regard to that outcome.

H10.12 Each Party shall provide the DCC with any such assistance and co-operation as it may reasonably request for the purpose of carrying out a Business Continuity and Disaster Recovery Test and confirming the operation of the Business Continuity and Disaster Recovery Procedure.

H10.12A Before notifying the Parties of each Business Continuity and Disaster Recovery Test, the DCC shall consult with the Parties and the ~~Panel~~~~Technical Architecture and Business Architecture Sub-Committee~~ regarding the Business Continuity and Disaster Recovery Test Schedule to ensure that (insofar as is reasonably practicable) the Business Continuity and Disaster Recovery Test is undertaken in such a way as to minimise any disruption to the provision of the Services (or any part of them). The DCC shall complete all necessary consultation prior to notifying Parties.

H10.12B The DCC shall notify each Party of its intention to carry out a Business Continuity and Disaster Recovery Test and provide each Party with a Business Continuity and Disaster Recovery Test Schedule at least 60 Working Days before the date on which such test is due to start. Where the DCC needs to amend the Business Continuity and Disaster Recovery Test Schedule following such notification and it is not reasonably practicable to give 60 Working Days' notice, it will provide such notice as far in advance as is reasonably practicable.

Amend Section H11 as follows (housekeeping change):

H11. PARSE AND CORRELATE SOFTWARE

Provision of Parse and Correlate Software

H11.1 -On receipt of a request to do so from any person, the DCC shall supply to that person a copy of the most recently released version of computer software (the “**Parse and Correlate Software**”) which:

- (a) has the functionality specified in Section H11.2;
- (b) has the characteristics specified in Section H11.3; and
- (c) is provided in the format specified in Section H11.4.

H11.2 The functionality specified in this Section H11.2 is that the software must enable any User to:

- (a) convert the relevant content of all Service Responses and Device Alerts (in each case only where generated from a Response or Alert originating from a SMETS2+ Device) into the format that is consistent with that set out in respect of them in the Message Mapping Catalogue; and
- (b) confirm that the content of any Pre-Command is substantively identical to the content of its associated Critical Service Request.

H11.3 The characteristics specified in this Section H11.3 are that:

- (a) the software is written using the Java programming language; and
- (b) the software is capable of operating on the version of the Java Virtual Machine/Run-time Environment prevailing at the time at which the design of that version of the software was finalised.

H11.4 The format specified in this Section H11.4 is that the software:

- (a) is provided as both:
 - (i) an executable file which includes everything required to enable the software to be installed on the systems of the person to whom it is provided in such a manner as not to have a material adverse effect on the operation of other software deployed within the same system environment; and
 - (ii) source software code; and
- (b) can be confirmed, on receipt by the person to whom it is provided:
- (c) as having been provided by the DCC; and

- (d) as being authentic, such that any tampering with the software would be apparent.

Amend Section H11.13 as follows (housekeeping change):

H11.13 Section H11.12 does not apply to the provision of assistance that is the responsibility of the DCC in accordance with the Incident Management Policy. The assistance referred to in Section H11.12 may include in particular assistance in respect of:

- (a) the development and testing of, and the provision of support for, a version of the Parse and Correlate Software which is capable of operating on a version of the Java Virtual Machine/Run-time Environment other than that prevailing at the time at which the design of the most recently released version of the Parse and Correlate Software was finalised;
- (b) the development and testing of, and the provision of support for, a version of the Parse and Correlate Software which meets any other User-specific requirements; and
- (c) the provision, in respect of more than two Application Servers, of support for the executable file referred to in Section H11.4(a)(i).

Amend Section H13.1 as follows (housekeeping change):

H13. PERFORMANCE STANDARDS AND REPORTING

Code Performance Measures

H13.1 Each of the following performance measures constitute a Code Performance Measure (to which the following Target Service Level and Minimum Service Level will apply, measured over the following Performance Measurement Period):

No.	Code Performance Measure	Performance Measurement Period	Target Service Level	Minimum Service Level
1	Percentage of On-Demand Service Responses delivered within the applicable Target Response Time.	monthly	99%	96%
2	Percentage of Future-Dated Service Responses delivered within the applicable Target Response Time.	monthly	99%	96%
3	Percentage of Alerts delivered within the applicable Target Response Time. Alerts consolidated in accordance with the Alert Management Mechanism will not be counted.	monthly	99%	96%
4	Percentage of Incidents which the DCC is responsible for resolving and which fall within Incident Category 1 or 2 that are resolved in accordance with the Incident Management Policy within the Target Resolution Time.	monthly	100%	85%

Managed by

5	Percentage of Incidents, measured and reported as a separate Code Performance Measure for each of Incident Categories 3, 4 and 5, which the DCC is responsible for resolving that are resolved in accordance with the Incident Management Policy within the Target Resolution Time.	monthly	90%	80%
5A	Percentage of Incidents which fall within Incident Category 3, 4 or 5 that are recorded on the Incident Management Log and assigned to a resolver within the Target Initial Response Time.	monthly	90%	80%
6	Percentage of time (in minutes) during which each DCC Interface (excluding the one listed in paragraph (f) of the definition of DCC Interface) is available during the Target Availability Period. There shall be a separate Code Performance Measure for each combination of DCC Interface, Region and the two relevant times of day (the first such relevant time of day being Monday-Friday 08.00-20.00 and Saturday 08.00-12.00; the second being every other time). For this purpose, a DCC Interface is only considered to be available where it and the DCC Systems on which it relies are fully available, such that those persons which are intended to be able to use the DCC Interface can use the full functionality which is intended to be available to them.	monthly	99.5%	98%
6A	Percentage of each of the Business Processes described in Section H13.1A which is delivered within the applicable Target Response Time. There shall be a separate Code Performance Measure for each combination of Business Processes and either Region (for SMETS2 ⁺) or SMETS1.	monthly	99%	96%
6B	Percentage of firmware images successfully delivered to Communication Hubs.	monthly	99%	96%
6C	Percentage of firmware image activations successfully implemented on Communication Hubs.	monthly	99%	96%

Amend Section H14.1 and 14.8 as follows:

H14. TESTING SERVICES

General Testing Requirements

H14.1 The DCC shall provide the following testing services (the “Testing Services”):

- (a) User Entry Process Tests;

- (b) SMKI and Repository Entry Process Tests;
- (c) Device and User System Tests;
- (d) Modification Proposal implementation testing (as described in Section H14.34);
- (e) DCC Internal Systems change testing (as described in Section H14.36);
- (f) RDP Entry Process Tests; ~~and~~
- (g) SMETS1 Pending Product Combinations Tests;
- (h) RF Noise Testing;
- (i) Interoperability and Innovation Events;
- (j) GFI Testing; and
- (k) Wired Instrumented Test Communications Hubs.

H14.2 The DCC shall make the Testing Services available, and shall provide the Testing Services:

- (a) in accordance with the Enduring Testing Approach Document and Good Industry Practice; and
- (b) between 08:00 hours and 18.00 hours Monday to Friday, and at any other time that it is reasonably practicable to do so (including where any DCC Service Provider has agreed to provide services at such time).

H14.3 The DCC shall act reasonably in relation to its provision of the Testing Services and shall facilitate the completion (in a timely manner) of tests pursuant to the Testing Services by each such person which is entitled to do so in accordance with this Section H14. Each Testing Participant shall comply with the Enduring Testing Approach Document with respect to the relevant Testing Services. The DCC shall publish on the DCC Website a guide for Testing Participants describing which persons are eligible for which Testing Services, and on what basis (including any applicable Charges).

H14.4 To the extent it is reasonably practicable to do so, the DCC shall allow persons who are eligible to undertake tests pursuant to the Testing Services to undertake those tests concurrently, or shall (otherwise) determine, in a non-discriminatory manner, the order in which such persons will be allowed to undertake such tests. Where any Testing Participant disputes the order in which persons are allowed to undertake tests pursuant to this Section H14.4, then the Testing Participant may refer the matter to the Panel. Where the DCC or any Testing Participant wishes to do so, it may refer the Panel's decision on such matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.5 Each Party which undertakes tests pursuant to the Testing Services shall do so in accordance with Good Industry Practice. To the extent that such tests involve a Party accessing the DCC's

premises, the Party shall do so in compliance with the site rules and reasonable instructions of the DCC.

H14.6 The DCC shall be liable for any loss of or damage to the equipment of Testing Participants (fair wear and tear excepted) that occurs while such equipment is within the DCC's possession or control pursuant to the Testing Services; save to the extent that such loss or damage is caused by a breach of this Code (or the equivalent agreement under Section H14.7) by the Testing Participant.

H14.7 Where (in accordance with this Section H14) a person that is not a Party is eligible to undertake a category of Testing Services as a Testing Participant, the DCC shall not provide those Testing Services to that person unless it is bound by an agreement entered into with the DCC pursuant to this Section H14.7. Where a person who is a Testing Participant (but not a Party) requests a Testing Service, the DCC shall offer terms upon which such Testing Service will be provided. Such offer shall be provided as soon as reasonably practicable after receipt of the request, and shall be based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances).

General: Forecasting

H14.8 Each Testing Participant shall provide the DCC with as much prior notice as is reasonably practicable of that Testing Participant's intention to use any of the following Testing Services: User Entry Process Tests, SMKI and Repository Entry Process Tests, Device and User System Tests ~~and~~ SMETS1 Pending Product Combinations Tests and RF Noise Testing.

General: Systems and Devices

H14.9 The DCC shall provide such facilities as are reasonably required in relation to the Testing Services, including providing:

- (a) for access to the Testing Services either at physical test laboratories and/or remotely;
- (b) a reasonable number of Test Communications Hubs for use by Testing Participants at the DCC's physical test laboratories which represent each and every combination of HAN Variant and WAN Variant; and
- (c) a reasonable number of Devices (other than SMETS2+ Communications Hubs) for use by Testing Participants at the DCC's physical test laboratories, which Devices are to be:
 - (i) in the case of SMETS1 Devices as further described or set out in the Enduring Testing Approach Document; or
 - (ii) except for SMETS1 Devices, of the same Device Models as those selected pursuant to the Device Selection Methodology and/or such other Device Models as the Panel approves from time to time (provided that, where Test Stubs (or other alternative arrangements) were used then such Tests Stubs (or other alternative arrangements) will be used in place of Devices until the DCC agrees with the Panel which Device Models to use).

H14.10 Without prejudice to Sections H14.9(b) and (c), the DCC shall allow Testing Participants to use Devices they have procured themselves when using the Testing Services. The DCC shall make

storage facilities available at the DCC's physical test laboratories for the temporary storage by Testing Participants of such Devices (for no more than 30 days before and no more than 30 days after completion of the Testing Service for which such Devices may be expected to be used). The DCC shall ensure that such storage facilities are secure and only capable of access by persons authorised by the relevant Testing Participant.

H14.10A The DCC may require a Testing Participant to remove its Devices from a DCC physical test laboratory in accordance with the requirements set out in the Enduring Testing Approach Document. Any dispute between the DCC and a Testing Participant regarding the removal of such Devices (or the right to re-commence testing) may be referred to the Panel for its determination (which determination shall be final and binding for the purposes of this Code).

Add Section H14.46 - 14.55 as follows:

Device and User System Tests

H14.31 This Section H14.31 shall only apply in respect of SMETS1 Devices from 31 August 2018 or any such later date as the Secretary of State may direct further to a recommendation from the DCC to the Secretary of State following a consultation on a proposed date by the DCC with all SEC Parties and the SEC Panel. The DCC shall provide a service to enable Testing Participants:

- (a) to test the interoperability of SMETS2+ Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Test Communications Hubs provided as part of the Testing Services, such that those Devices are able to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification;
- (b) to test the interoperability of SMETS1 Devices with the DCC Systems, such that those Devices are able to respond to Instructions received from or via the DCC such that the necessary Equivalent Steps are taken (provided that such service need only be provided by the DCC in respect of combinations of SMETS1 Device Models that are listed on the SMETS1 Eligible Product Combinations);
- (c) to test the interoperability of User Systems with the DCC Systems, including via the DCC User Interface and the Self-Service Interface;
- (d) to test simultaneously the interoperability of User Systems and SMETS2+ Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Test Communications Hubs provided as part of the Testing Services; and
- (e) to test simultaneously the interoperability of User Systems and SMETS1 Devices (excluding combinations of SMETS1 Devices that are not listed on the SMETS1 Eligible Product Combinations) with the DCC Systems,

which Testing Services, except in respect of (c) above, shall (subject to the Testing Participant agreeing to pay any applicable Charges, as further described in the Enduring Testing Approach Document) include the provision of a connection to a simulation of the SMETS2+ SM WAN for the purpose of such tests as further described in the Enduring Testing Approach Document (save to the extent the connection is required where the DCC is relieved from its obligation to provide Communication Services pursuant to the Statement of Service Exemptions). For the avoidance of doubt, the DCC shall not be

obliged by this Section H14.31 to provide a connection to a simulation of the SMETS1 SM WAN. References to particular Systems in this Section H14.31 may include a simulation of those Systems (rather than the actual Systems).

H14.32 Each Party is eligible to undertake Device and User System Tests. Any Manufacturer (whether or not a Party) is eligible to undertake those Device and User System Tests described in Section H14.31(a) and (b); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the Manufacturer must be a Party. Any person providing (or seeking to provide) goods or services to Parties or Manufacturers in respect of Devices is eligible to undertake those Device and User System Tests described in Section H14.31(a) and (b); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the person must be a Party. A Party undertaking the Device and User System Tests described in Section H14.31(c) is entitled to undertake tests equivalent to any or all of the User Entry Process Tests and SMKI and Repository Entry Process Tests, in respect of which:

- (a) the DCC shall, at the Party's request, assess whether the test results would meet the requirements of all or part of the applicable User Entry Process Tests and/or SMKI and Repository Entry Process Tests;
- (b) the DCC shall, at the Party's request, provide a written statement confirming the DCC's assessment of whether the test results would meet the requirements of all or part of the applicable tests; and
- (c) the Party may, where it disputes the DCC's assessment, refer the matter to the Panel for its determination (which shall be final and binding for the purposes of this Code).

H14.33 The DCC shall, on request by a Testing Participant, take all reasonable steps to offer additional support to that Testing Participant (subject to such Testing Participant agreeing to pay any applicable Charges) in understanding and resolving issues associated with:

- (a) the DCC Total System and the results of such Testing Participant's Device and User System Tests;
- (b) where the Testing Participant is a Party, the Systems of the Testing Participant that are (or are intended to be) User Systems; and/or
- (c) communications between the DCC and any Device or between Devices which comprise (or which the Testing Participant intends will comprise) a Smart Metering System.

H14.33A The additional Testing Services provided for in Section H14.33 are without prejudice to the DCC's obligations in respect of Testing Issues, Incidents and Problems.

Modification Implementation Testing

H14.34 Where an approved Modification Proposal provides for the DCC to provide testing services as part of the Modification Proposal's implementation, then such testing shall be undertaken as a Testing Service pursuant to this Section H14.34.

H14.35 The Parties which are eligible, or obliged, to participate in such testing shall be determined in accordance with Section D (Modification Process), and either set out in this Code or established via a process set out in this Code.

DCC Internal System Change Testing

H14.36 Where, pursuant to Section H8.8 (DCC Internal Systems Changes), a Party or an RDP is involved in testing of changes to the DCC Internal Systems, then such testing shall not be subject to the requirements of Section H14.3, Section H14.4 and Sections H14.6 to H14.11 (inclusive), but such Party or RDP may nevertheless raise a Testing Issue in respect of the tests (and the references to Testing Participant in Sections H14.37 to H14.44 shall be interpreted accordingly).

SMETS1 Pending Product Combinations Tests

H14.36A This Section H14.36A shall only apply in respect of SMETS1 Devices from 31 August 2018 or any such later date as the Secretary of State may direct further to a recommendation from the DCC to the Secretary of State following a consultation on a proposed date by the DCC with all SEC Parties and the SEC Panel. The DCC shall provide services (the "**SMETS1 Pending Product Combinations Tests**") whereby a Party or a Manufacturer (being the relevant Testing Participant) can from time to time request that the DCC determines whether or not testing is required and, where it determines that testing is required, tests one or more combinations of SMETS1 Device Models and communication services provider that are not at that time listed on the SMETS1 Eligible Product Combinations in order to demonstrate whether the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of them (subject to Section H14.36C(c)).

H14.36B Where requested in accordance with Section H14.36A, the DCC shall undertake, and facilitate the Testing Participant's participation in, the SMETS1 Pending Product Combinations Tests in respect of the requested combination(s) of SMETS1 Device Models as soon as reasonably practicable. The DCC shall then notify the relevant Testing Participant whether the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of them, without needing to make material changes to the DCC Systems and/or modifications to this Code.

H14.36C Where the DCC notifies a Testing Participant that the DCC is not able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of a combination of SMETS1 Device Models without needing to make material changes to the DCC Systems and/or modifications to this Code, then the DCC shall:

- (a) provide the relevant Testing Participant with reasonable details of the reasons why the DCC is not able to do so, and of the changes to the DCC Systems and/or modifications to this Code which would be required in order to enable the DCC to do so (in each case, to the extent that the DCC has been able to identify such reasons and changes and/or modifications, having taken reasonable steps to identify them);
- (b) provide the relevant Testing Participant with such reasonable support as they may request in understanding the issues identified by the DCC;
- (c) not be obliged to provide SMETS1 Pending Product Combinations Tests to the same Testing Participant in respect of the same combination of SMETS1 Device Models unless and until

the relevant changes have been made to the DCC System and/or the relevant modifications have been made to this Code; and

- (d) make available in accordance with the Enduring Testing Approach Document such details regarding the relevant combination of SMETS1 Device Models as is required in accordance with the Enduring Testing Approach Document.

H14.36D Where the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of a combination of SMETS1 Device Models without needing to make material changes to the DCC Systems and/or modifications to this Code, then the DCC shall add that combination of Device Models to the SMETS1 Eligible Product Combinations.

H14.36E The DCC and the relevant Testing Participant in respect of the SMETS1 Pending Product Combinations Tests shall comply with any and all additional obligations concerning SMETS1 Pending Product Combinations Tests set out in the Enduring Testing Approach Document.

General: Testing Issue Resolution Process

H14.37 Each Testing Participant undertaking tests pursuant to this Section H14 is entitled to raise a Testing Issue in respect of those tests. Each Testing Participant shall take reasonable steps to diagnose and resolve a Testing Issue before raising it in accordance with this Section H14.

H14.38A Testing Participant that wishes to raise a Testing Issue shall raise it with the relevant DCC Service Provider (as identified by the DCC from time to time) in accordance with a reasonable and not unduly discriminatory procedure, which is to be established by the DCC and provided to the Panel from time to time (which the Panel shall publish on the Website).

H14.39 Where a Testing Participant raises a Testing Issue, the DCC shall ensure that the relevant DCC Service Provider shall (as soon as reasonably practicable thereafter):

- (a) determine the severity level and priority status of the Testing Issue;
- (b) inform the Testing Participant of a reasonable timetable for resolution of the Testing Issue consistent with its severity level and priority status; and
- (c) provide its determination (in accordance with such timetable) to the Testing Participant on the actions (if any) to be taken to resolve the Testing Issue.

H14.40 Pursuant to H14.39, the DCC shall share with categories of Testing Participant any information (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised) relating to the Testing Issue which is likely to be of use to those categories of Testing Participants (provided that no such information should be shared to the extent it poses a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices).

H14.41 Where a Testing Participant is dissatisfied with any of the determinations under Section H14.39 (or the speed with which any such determination is made), the Testing Participant may refer the

matter to the DCC. On such a referral to the DCC, the DCC shall (as soon as reasonably practicable thereafter):

- (a) consult with the Testing Participant and any other person as the DCC considers appropriate;
- (b) either, depending on the subject matter of the disagreement:
 - (i) direct the DCC Service Provider to more quickly provide its determination of the matters set out in Section H14.39(a), (b) and/or (c); or
 - (ii) make the DCC's own determination of the matters set out in Section H14.39(a), (b) and/or (c);
- (c) notify the Panel of the DCC's direction or determination under (b) above; and
- (d) share with categories of Testing Participant any information (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised) relating to the Testing Issue which is likely to be of use to those categories of Testing Participants (provided that no such information should be shared to the extent it poses a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices).

H14.42 Where the Testing Participant (or any Party) disagrees with the DCC's determination pursuant to Section H14.41 of the matters set out at Section H14.39(c) (but not otherwise), then the Testing Participant (or Party) may request that the DCC refers the matter to the Panel for its consideration (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised).

H14.43 Where a matter is referred to the Panel for its consideration pursuant to Section H14.42, the Panel shall consider the matter further to decide upon the actions (if any) to be taken to resolve the Testing Issue, unless the matter relates to testing undertaken pursuant to Section T (Testing During Transition), in which case the Panel shall notify the Secretary of State and shall consider the matter further and make such a decision only where, having received such a notification, the Secretary of State so directs. Where the Panel considers the matter further, it may conduct such further consultation as it considers appropriate before making such a decision. Such a decision may include a decision that:

- (a) an aspect of the Code could be amended to better facilitate achievement of the SEC Objectives;
- (b) an aspect of the DCC Systems is inconsistent with the requirements of this Code;
- (c) an aspect of one or more Devices is inconsistent with the requirements of this Code; or
- (d) an aspect of the User Systems or the RDP Systems is inconsistent with the requirements of this Code.

H14.44 The Panel shall publish each of its decisions under Section H14.43 on the Website; provided that the identities of the Testing Participant and (where relevant) the Device's Manufacturer are anonymised, and that the Panel shall remove or redact information where it considers that

publishing such information would be prejudicial to the interests of one or more Parties, or pose a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices.

H14.45A decision of the Panel under Section H14.43 is merely intended to facilitate resolution of the relevant Testing Issue. A decision of the Panel under Section H14.43 is without prejudice to any future decision by the Change Board and/or the Authority concerning a Modification Proposal, by the Secretary of State in exercising its powers under section 88 of the Energy Act 2008, by the Authority concerning the DCC's compliance with the DCC Licence, or by the Panel under Section M8 (Suspension, Expulsion and Withdrawal).

Radio Frequency Noise Testing

H14.46 The DCC shall provide a Testing Service (referred to as RF Noise Testing) to enable Testing Participants to test ESME or a Communication Hub Hot Shoe to ensure it meets the requirements of the current Intimate Communications Hub Interface Specification (ICHIS) published on the DCC Website in accordance with SEC Section H12.

H14.47 The following shall apply in respect of RF Noise Testing:

- (a) the following persons shall be eligible to undertake RF Noise Testing: Parties and persons that have signed agreements based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances, including so as to require compliance with this Section H14);
- (b) Testing Participants undertaking RF Noise Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time (provided that such obligations are not inconsistent with the provisions of the Code that are in effect at that time); and
- (c) the Testing Issue Resolution Process in Section H14.47 to H14.55 (General: Testing Issue Resolution Process) shall not apply to RF Noise Testing, but DCC must take reasonable steps to provide support and assistance to a person undertaking RF Noise Testing in order to assist that person in resolving Testing Issues encountered when undertaking RF Noise Testing.

H14.46H14.48 The DCC and the relevant Testing Participant in respect of the RF Noise Testing shall comply with any and all additional obligations concerning RF Noise Testing set out in the Enduring Testing Approach Document.

Interoperability and Innovation Events

H14.49The DCC shall provide a Testing Service (referred to as Interoperability and Innovation Events) that provides a platform for Device Manufacturers to test connectivity, interoperability, interchangeability and functionality between SMETS2+ Home Area Network (HAN) Devices.

H14.50The DCC and the relevant Testing Participants in respect of Interoperability and Innovation Events shall comply with any and all additional obligations concerning Interoperability and Innovation Events set out in the Enduring Testing Approach Document.

GFI Testing

H14.51 The DCC shall provide GFI Testing Tools to Testing Participants upon request to support GFI Testing.

H14.52 The following shall apply in respect of GFI Testing:

- (a) the following persons shall be eligible to undertake GFI Testing: Parties and persons that have signed agreements based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances, including so as to require compliance with this Section H14);
- (b) the references in H14.42 to “Communications Hubs”, “DCC Systems” and “Devices” shall be interpreted as including references to prototypes of simulations of those things (and GFI Testing shall not include communication via the SM WAN, or a simulation of the SM WAN);
- (c) Testing Participants undertaking GFI Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time (provided that such obligations are not inconsistent with the provisions of the Code that are in effect at that time); and
- (d) the Testing Issue Resolution Process in Section H14.47 to H14.55 (General: Testing Issue Resolution Process) shall not apply to GFI Testing, but DCC must take reasonable steps to provide support and assistance to a person undertaking GFI Testing in order to assist that person in resolving Testing Issues encountered when undertaking GFI Testing.

H14.53 The DCC and the relevant Testing Participant in respect of the GFI Testing shall comply with any and all additional obligations concerning GFI Testing set out in the Enduring Testing Approach Document.

Wired Instrumented Test Communications Hubs

H14.54 The DCC shall provide a Testing Service (referred to as Wired ITCH) to enable Testing Participants to perform interoperability testing with SMETS2+ Test Communications Hub that will facilitate the sending of DUIS Commands to HAN Devices.

H14.55 The DCC and the relevant Testing Participant in respect of the Wired ITCH shall comply with any and all additional obligations concerning Wired ITCH set out in the Enduring Testing Approach Document.

Amend Section H16 as follows (housekeeping change):

H16. INTEROPERABILITY CHECKER SERVICE

The Responsibility of Supplier Parties

H16.1 Each Supplier Party shall ensure that Energy Consumers at premises supplied by it with electricity and/or gas shall:

- (a) have access to the information described in Section H16.2;

- (b) be able to access that information in the manner described in Section H16.4; and
- (c) have such access in such manner during the period determined in accordance with Section H16.5.

H16.2 The information described in this Section (the "**Interoperability Data**") is, in respect of each premises, information as to:

- (a) whether the supply of electricity or the supply of gas (as determined by the request made by the Energy Consumer) to the premises is made through an Enrolled Smart Metering System; and
- (b) where either the supply of electricity or the supply of gas is made through an enrolled Smart Metering System:
 - (i) whether the supply of other fuel is also made through an Enrolled Smart Metering System;
 - (ii) the name of the Electricity Supplier or the name of the Gas Supplier (or both as the case may be);
 - (iii) whether any such Enrolled Smart Metering System is a SMETS1 Smart Metering System or a SMETS2+ Smart Metering System; and
 - (iv) where any such Enrolled Smart Metering System is a SMETS1 Smart Metering System, the name of each electricity and/or gas supplier (as the case may be) which has notified the DCC that it is its policy, if it commences to supply premises at which a Smart Metering System of that type is installed, to operate that Smart Metering System in Smart Mode.

Section K 'Charging Methodology'

These changes have been redlined against Section K version 10.0.

Amend Section K as follows:

K7.5 The Explicit Charging Metrics for each Party and the Charging Period for each month are as follows:

- (a) ('security assessments') an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section G8.51 (Users: Obligation to Pay Charges) in relation to User Security Assessments, Follow-up Security Assessments, User Security Assessment Reports or the activities of the Independent Security Assurance Service Provider;
- (b) ('privacy assessments') an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section I2.40 (Users: Obligation to Pay Charges) in relation to Full Privacy Assessments, Random Sample Privacy Assessments, Privacy Assessment Reports or the activities of the Independent Privacy Auditor;
- (c) ('LV gateway connection') an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway LV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (d) ('HV gateway connection') an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway HV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (e) ('gateway equipment relocation') an obligation to pay arising during that Charging Period as a result of a request by that Party to relocate DCC Gateway Equipment under Section H15.27 (DCCGateway Equipment);
- (f) ('elective service evaluations') an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party for a Detailed Evaluation in respect of potential Elective Communication Services pursuant to Section H7.8 (Detailed Evaluations of Elective Communication Services);
- (g) ('P&C support') an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party in relation to that Party's use or implementation of the Parse and Correlate Software pursuant to Section H11.12 (Provision of Support & Assistance to Users);

- (h) ('SM WAN for testing') an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide a connection to a simulation of the SM WAN pursuant to Section H14.31 (Device and User System Testing);
- (i) ('additional testing support') an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide additional testing support to that Party pursuant to Section H14.33 (Device and User System Testing);
- (j) ('communication services') the number of each of the Services identified in the DCC User Interface Services Schedule which have been provided to that Party during that Charging Period;
- (k) ('CH non-standard delivery') an obligation to pay arising during that Charging Period as a result of the request by that Party for non-standard Communications Hub Product delivery requirements pursuant to Section F6.17 (Non-Standard Delivery Options);
- (l) ('CH stock level charge') the number (to be measured at the end of that Charging Period) of Communications Hubs that have been delivered to that Party under Section F6 (Delivery and Acceptance of Communications Hubs) and for which none of the following has yet occurred: (i) identification on the Smart Metering Inventory as 'installed not commissioned' or 'commissioned'; (ii) rejection in accordance with Section F6.10 (Confirmation of Delivery); (iii) delivery to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs); or (iv) notification to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs) that the Communications Hub has been lost or destroyed;
- (m) ~~not used~~; ('GFI Testing') the number of each of the types of GFI Testing tools which have been delivered to that Party during that Charging Period under Section H14 (Testing Services) and in accordance with Section 15 of Appendix J (Enduring Testing Approach Document);
- (n) ('CH auxiliary equipment') the number of each of the types of Communications Hub Auxiliary Equipment which have been delivered to that Party during that Charging Period under Section F6 (Delivery and Acceptance of Communications Hubs), and which have not been (and are not) rejected in accordance with Section F6.10 (Rejected Communications Hub Products) or (in the case of the Communications Hub Auxiliary Equipment to which Section 7.8 applies (Ownership of and Responsibility for Communications Hub Auxiliary Equipment)) returned, or notified as lost or destroyed, for a reason which is a CH Pre-Installation DCC Responsibility;
- (o) ('CH returned and redeployed') the number of Communications Hubs which have been returned by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have been (or are intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);

- (p) ('CH returned not redeployed') the number of Communications Hubs which have been returned, or notified as lost or destroyed, by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have not been (and are not intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);
 - (q) ('CH wrong returns location') an obligation to pay arising during that Charging Period as a result of the return by that Party of Communications Hubs to the wrong returns location as referred to in Section F8.9 (Return of Communications Hubs);
 - (r) ('test comms hubs') the number of Test Communications Hubs delivered to that Party during that Charging Period, and which have not been (and are not) returned to the DCC in accordance with Section F10.8 (Ordering, Delivery, Rejection and Returns);
 - (s) ('additional CH Order Management System accounts') the number of additional CH Order Management System accounts made available to that Party during that Charging Period in accordance with Section F5.23 (CH Order Management System Accounts);
 - (t) ('shared solution Alt HAN Equipment') the number (as measured at the end of that Charging Period) of MPANs associated with premises supplied with electricity by that Party and of MPRNs associated with premises supplied with gas by that Party, in respect of each of which premises (except where the Alt HAN Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) Central Shared Solution Alt HAN Equipment is installed;
 - (u) ('point-to-point Alt HAN Equipment') the number (as measured at the end of that Charging Period) of MPANs associated with premises supplied with electricity by that Party and of MPRNs associated with premises supplied with gas by that Party, in respect of each of which premises (except where the Alt HAN Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) Central Point-to-Point Alt HAN Equipment is installed; and
 - (v) ('stock level point-to-point Alt HAN Equipment') the number of items of Central Point-to-Point Alt HAN Equipment (as measured at the end of that Charging Period) delivered to that Party but not installed.
- (w) ('RF Noise Testing') an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide RF Noise Testing pursuant to Section H14.37 (Radio Frequency Noise Testing).

Schedule 7 'Specimen Enabling Services Agreement'

These changes have been redlined against Schedule 7 version 7.0.

Amend Schedule 1 as follows:

Schedule 1 – Enabling Services

[The Enabling Services shall comprise the provision of Test Communications Hubs in accordance with Section F10 (Test Communications Hubs). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section F10 (the Participant complying with those obligations assigned to TCH Participants).]

[The Enabling Services shall comprise the provision of either or both those Device and User System Tests described in Section H14.31(a) and (b) (Device and User System Tests) in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of SMETS1 Pending Product Combinations Tests in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of RF Noise Testing in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of Interoperability and Innovation Events in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of GFI Testing in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

Appendix J 'Enduring Testing Approach Document'

These changes have been redlined against Appendix J version 2.0.

Amend Appendix J6 as follows:

6 Requirements for Use of DCC Test Labs

- 6.1 Pursuant to Section H14.9(a), the DCC shall make available the DCC's physical test laboratories to Testing Participants to conduct User Entry Process Tests, Device and User System Tests, Modification Proposal implementation testing, ~~and~~ DCC Internal Systems change testing, Interoperability and Innovation Events and RF Noise Testing.
- 6.2 Where a Testing Participant is performing tests in a DCC physical test laboratory, it must comply with any reasonable supplemental terms and conditions that are required by the DCC and notified prior to testing which may include:
 - a) identification and authorisation of the individual(s) requiring access to the DCC physical test laboratory;
 - b) requirements to maintain confidentiality of information;
 - c) policies relating to the acceptable use of the laboratory and equipment; and
 - d) requirements to follow:
 - (i) health and safety guidance for test laboratories;
 - (ii) security guidance; and
 - (iii) training on use of test laboratories and installation of Devices in the spaces provided.
- 6.3 Where DCC considers that the Testing Participant has breached any SEC obligations relating to the use of a Testing Service at the physical test laboratory it shall notify the Testing Participant to that effect. The DCC and Testing Participant shall use reasonable steps to rectify the situation. Where DCC considers that the situation has not been rectified the DCC may request that the Testing Participant shall immediately remove its Devices from the Test Lab and the Testing Participant shall comply with such a request. DCC will provide the Testing Participant with:
 - a) the reason(s) for this instruction; and
 - b) the steps that must be taken and the evidence required, in order for the

Participant to re-commence testing.

- 6.4 A Testing Participant may dispute the reasons for the instruction in clause a) or b) to the Panel and the DCC and Testing Participant shall comply with any determination.
- 6.5 Where a Testing Participant wishes to install their own devices in a DCC physical test laboratory, the Testing Participant must provide the following to the DCC prior to installing a device in a DCC physical test laboratory:
- a) in the case of SMETS2+ Devices only, where a Testing Participant reasonably believes that devices do not conform to SMETS2+ that any non-compliant aspects are notified to, and agreed with, the DCC (such agreement not to be unreasonably withheld). Supporting information should be provided, including evidence of testing that has been undertaken, which could include the use of GIT for Industry;
 - b) evidence that all the supplied devices are safe to store, install, operate and decommission. This may be in the form of a statement of compliance with the relevant parts of the CE marking or equivalent; and
 - c) confirmation that the devices have been produced in accordance with a recognised quality assurance process and a defined testing issue management and configuration management process.
- 6.6 Where a Testing Participant wishes to install their own Devices in a DCC physical test laboratory, the Testing Participant must:
- a) remove devices from the DCC physical test laboratory by 17:00 on the last day of the allocated test slot; and
 - b) comply with any other reasonable restrictions notified by the DCC, which the DCC shall notify to a Testing Participant when informing them that their requested test slot is available.
- 6.7 For the purpose of Section H14.10, storage space requirements for equipment shall be arranged between the DCC and the Testing Participant when making application to use the physical test laboratory. Pursuant to Section H14.10, the DCC will store at its physical test laboratories any number of Devices that a Testing Participant has procured itself that the DCC can reasonably accommodate.
- 6.8 In relation to testing being undertaken in a DCC physical test laboratory:
- a) without prejudice to the DCC's obligations under Section M4 (Confidentiality), each Testing Participant shall take reasonable steps to preserve the confidentiality of the

Testing Participant's Confidential Information;

- b) no Testing Participant shall attempt to discover, overhear or obtain Data regarding testing being conducted by other Testing Participants in the DCC physical test laboratory; and
- c) (without prejudice to (b) above) no Testing Participant shall disclose or use any Data of the DCC or any other Testing Participant that the first Testing Participant discovers, overhears or obtains in the course of using the DCC's physical test laboratory.

Amend Appendix J7 as follows:

7 User Entry Process Tests

7.1 In accordance with Section H14.9, DCC physical test laboratories will house sets of Devices or the DCC shall provide test stubs for SMETS2+ Devices, with a set consisting of:

- a) For tests in respect of SMETS2+ Devices:
 - (i) one Test Communications Hub;
 - (ii) one Electricity Smart Meter; and
 - (iii) one Gas Smart Meter.
- b) For tests in respect of SMETS1 Devices, two sets of Devices comprising Device Model Combinations that are on the list of Eligible Product Combinations, comprising one of ~~each of~~ the following:
 - (i) a Communications Hub, an Electricity Smart Meter, a Gas Smart Meter and an IHD; ~~or and~~
 - (ii) a Communications Hub, an Electricity Smart Meter, a Gas Smart Meter and a SMETS1 PPMID.

7.2 DCC shall allocate a number of spaces in the DCC physical test laboratory, together with Device sets to the Testing Participant, as agreed at the User Entry Process Tests initiation meeting, according to the following allocation schedule:

- a) Parties that are Affiliates undertaking UEPT in the User Roles of Import Supplier and / or Gas Supplier will collectively be allocated a total of two SMET2+ Device sets and two SMETS1 Device sets to undertake UEPT in those User Roles;
- b) Parties that are Affiliates undertaking UEPT in the User Role of Export Supplier will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets

to undertake UEPT in that User Role;

- c) Parties that are Affiliates undertaking UEPT in the User Roles of Electricity Distributor and / or Gas Transporter will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets to undertake UEPT in those User Roles. Where Parties that are Affiliates hold Electricity Distribution Licences and/or Gas Transportation Licences in different Regions, in the case of SMETS2+ Device sets, such Affiliates shall be offered on request two Device sets collectively in relation to each Region; and
- d) Parties that are Affiliates undertaking UEPT in the User Role of Other User will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets to undertake UEPT in that User Role.

7.3 The Device sets allocated for the conduct of User Entry Process Tests shall not be used for other testing without the agreement of DCC, such agreement not to be unreasonably withheld.

Add Appendix J14-17 as follows:

14 Radio Frequency Noise Testing

- 14.1 RF Noise Testing shall be undertaken to the requirements as set out in the current Intimate Communications Hub Interface Specification (ICHIS) and the associated ICHIS Test Specification published on the DCC Website.
- 14.2 The DCC shall provide a reasonable number of each Communications Hub Antenna Structure (CHAS) test device listed in the current ICHIS to Testing Participants for the purposes of RF Noise Testing.
- 14.3 RF Noise Testing shall also provide the ability for the DCC to test new CHAS test devices not yet listed in the current ICHIS with SMETS2+ ESME and Communications Hub Hot Shoe Devices upon agreement with the relevant Testing Participant.
- 14.4 Where a Testing Participant requests RF Noise Testing, the DCC shall provide confirmation that it can accommodate the request and a quotation for the Charges associated with the service.
- 14.5 Where a Testing Participant wishes to accept the quotation for RF Noise Testing, the Testing Participant shall notify the DCC.
- 14.6 Where RF Noise Testing is undertaken at the DCC Test Labs then Section 6 will apply.

15 Interoperability and Innovation Events

- 15.1 Testing Participants will be notified of the schedule of events and issued invitations to attend by the DCC. Invitations to attend shall be issued via e-mail at least one month prior to the event.
- 15.2 The DCC shall notify any terms relating to the attendance of Interoperability and Innovation Events to each Testing Participant prior to the attendance of such an event.
- 15.3 Where an Interoperability and Innovation Event is held at the DCC Test Labs then Section 6 will apply.
- 15.4 No certification or accreditation is provided by attending these events.

16 GFI Testing

- 16.1 The DCC shall develop and make available via the DCC Website a policy describing the provisions and allocation requirements for types of GFI Testing.
- 16.2 The Testing Participant shall request GFI Testing Tools in accordance with the GFI Testing Policy.
- 16.3 Where a Testing Participant requests GFI Testing outside of the provisions and allocation requirements set out in the GFI Testing Policy, the DCC shall provide confirmation that it can accommodate the request and a quotation for the Charges of the service.
- 16.4 Where a Testing Participant wishes to accept the quotation for GFI Testing, the Testing Participant shall notify the DCC.

17 Wired Instrumented Test Communications Hub (ITCH)

- 17.1 The DCC shall make available to Testing Participants Dual Band SMETS2+ Instrumented Test Communication Hubs (ITCHs) which are a Communications Hub (CH) variant in which the SM-WAN interface is disabled. The Wired ITCH will contain the capability to be connected to a test environment Personal Computer (PC) via a wired interface. This will enable a Testing Participant to exchange messages, responses and alerts between the PC and the CH without the use of a WAN network.
- 17.2 Testing Participants may order Wired ITCHs in accordance with SEC Section F10.

Definitions & Interpretation	
<u>Communications Hub Antenna Structure (CHAS)</u>	<u>means a unit which is used for testing against the Intimate Communications Hub Interface Specification (ICHIS) Test Specification.</u>
GIT for Industry	means a test tool provided by DCC to validate implementation of GBCS by a Device.
Quality Gate Checklist	means a checklist document used to support assessment whether criteria have been met.
Testing Issue Management Tool	means a test management tool that has the ability to log and track Testing Issues.
<u>Testing Participants</u>	<u>means, in respect of each Testing Service, the persons (whether or not they are Parties) who are entitled to undertake such tests, as described in Section H14 (Testing Services).</u>