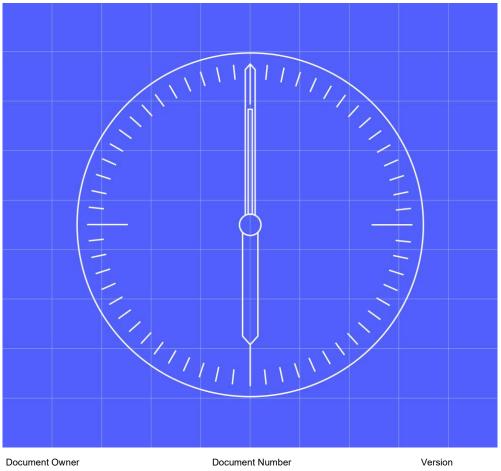
# MHHS Qualification Assessment Document



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Version 3.0<u>2</u>4 Classification **Public** 

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## 2. House Keeping

#### 2.1 Change Record

Date	Author	Version	Change Detail	-	Formatted Table
16/02/2024	Elexon and REC Performance Assurance	0.1	Draft version for consultation, covering functional requirements only. This document has not been through the BSC and REC PAB governance process yet, and may require further updates to cover non-functional, migration, and operational requirements. The information provided may change, subject to review.		
20/02/2024	Elexon and REC Performance Assurance	1.0	Final version, following updates from industry consultation, to present to BSC and REC PABs for approval.		
07/05/2024	Elexon and REC Performance Assurance	1.1	Draft version for consultation, covering role specific guidance points.		
02/07/2024	Elexon and REC Performance Assurance	1.2	Draft version for consultation, following updates from industry consultation as well as covering Non-Functional, Migration and Operational requirements and any updates relating to the Functional requirements.		
06/08/2024	Elexon and REC Performance Assurance	2.0	Second draft of the second iteration – this document has been updated to reflect consultation comments for QWG review ahead of submission to QAG, BSC and REC PABs for approval.		
13/08/2024	Elexon and REC Performance Assurance	3.0	Post QWG, this document has been updated to update DIP section ahead of submission to QAG, BSC and REC PABs for approval.		
24/10/2024	Elexon and REC Performance Assurance	<u>3.1</u>	Updates made to make reflect changes in the BSC Assessment Criteria. This document has also had the DIP Section updated. It has also had -housekeeping changes.		<b>Formatted:</b> Normal Indent, Position: Horizontal: Left, Relative to: Margin, Vertical: 0.06 cm, Relative to: Paragraph, Horizontal: 0.32 cm, Wrap Around
03/12/2024	Elexon and REC Performance Assurance	3.2	This document has been updated to reflect consultation comments for QWG review ahead of submission to QAG, BSC PAB		Formatted: Normal Indent, Position: Horizontal: Left, Relative to: Margin, Vertical: 0.06 cm, Relative to: Paragraph, Horizontal: 0.32 cm, Wrap Around
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#### 2.2 Linked Documents

Name	Link
Qualification Approach and Plan	https://www.mhhsprogramme.co.uk/testing/qualification/qualification-approach-and- plan
MHHS Qualification Glossary	MHHS Qualification Glossary

## 3. Document Instructions

The Qualification Assessment Document (QAD) is the mechanism through which all Programme Participants will provide the evidence required by Code Bodies for MHHS Qualification. Code Bodies expect Programme Participants to complete the QAD at an organisation level, covering all Market Roles they intend to operate within the new MHHS arrangements.

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Relative to: Margin, Vertical: 0.06 cm, Relative to:

Paragraph, Horizontal: 0.32 cm, Wrap Around **Formatted:** Normal Indent, Position: Horizontal: Left, Relative to: Margin, Vertical: 0.06 cm, Relative to: Paragraph, Horizontal: 0.32 cm, Wrap Around For further details on the Qualification process please refer to the Qualification Approach and Plan (QA&P) which sets out the purpose of MHHS Qualification during the MHHS Programme and the high-level plan and requirements for Programme Participants to undertake in relation to the Balancing and Settlement Code (BSC) and Retail Energy Code (REC).

To support the efficient review of evidence and to avoid unnecessary delay between the completion of Qualification Testing (QT) / MHHS Programme Systems Integration Testing (SIT) and MHHS Qualification being approved, evidence should be provided via an Initial QAD Submission and a Final QAD Submission.

A Programme Participant must provide the following in its Initial QAD Submission:

- Confirmation of Pre-Integration Testing (PIT) completion<sup>1</sup> (test completion report including defects that cannot be resolved through PIT with supporting work-off plans and agreement with Code Bodies where elements of PIT have been deferred for later completion), which is outlined in section 4.2.2,
- Confirmation that it has service designs/Local Work Instructions (LWIs) covering each relevant process, which
  is outlined in section 4.2.3,
- Details of operational readiness e.g. exception management etc, which is outlined in section 4.3, and
- Other organisation specific information requested in the Initial QAD Submission (not reliant on testing).

Code Bodies will then review this information and work with the Programme Participant to clarify and assure that the information provided meets Code Body requirements for MHHS Qualification.

Once the Programme Participant has completed QT/SIT, it must provide its **Final QAD Submission** covering the following:

- Confirmation of QT/SIT completion (test completion report including defects that cannot be resolved through SIT/QT with supporting work-off plans that have been agreed by Code Bodies), which is outlined in section 4.2.4.
- Confirmation that it has completed DIP User requirements e.g. information security responses reviewed and agreed by DIP Manager and any contractual agreements, required between the Programme Participant and the DIP Manager to become a DIP User, have been signed (this includes DIP Connection Providers operating on a Programme Participant's behalf), which is outlined in section 4.5.

All sections must be completed during the Initial QAD Submission, and verified for the Final QAD Submission, unless stated.

The relevant MHHS requirements are provided for reference only, and Participants are not expected to delineate their responses for each MHHS requirement. Participants should respond to the specific questions in the form, using the guidance provided.

The **Final QAD Submission** must be signed by a Company Director (or delegate for roles governed only under REC) to confirm that the information and evidence provided is complete and accurate.

Acronyms and defined terms used across the MHHS Programme are hosted in a MHHS Programme artefact - <u>MHHS</u> <u>Qualification Glossary</u>, and further terms relating to qualification are defined in 'Appendix A – Glossary' of the Qualification Approach and Plan.

[Although Code Bodies have provided a Word version of the QAD for this consultation, the format of the QAD submission is likely to change to an electronic version which has been demonstrated as part of the <u>QAD Portal</u> <u>Webinar</u>. Please note that Code Bodies will provide further guidance on the evaluation criteria for each section as part of a QAD walkthrough webinar and within the electronic version.]

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<sup>&</sup>lt;sup>1</sup> For Non-SIT LDSOs, as Non-Functional PIT is not due to be completed until 30th September 2024 and their Initial QAD Submission is due by 10th October 2024, therefore Code Bodies acknowledge that whilst Non-SIT LDSOs should have their PIT TCR and submit it as part of their initial QAD submission however, the Non-SIT LDSO QT Team may not have completed assurance of PIT yet.

# 4. Organisation Section

#### 4.1 Company Sign Off

To be completed in final submission of the QAD

Name	of Programme Participant Organi	sation:			
Except	for the matters detailed below (dele	ete if not applicable), having ma	de appropriate enquiries of othe	er directors and officials of the organisation, I confirm that	:
1)	The information and evidence provor for any other reason.	vided in this Qualification Asses	ssment Document is true and acc	curate and not misleading because of any omission or an	nbiguity
2)	•			e reflection for our arrangements for MHHS live operation ad in 7.3.7 of the Qualification Approach and Plan.	is, and I
3)	The arrangements as documented about by Marketwide Half-Hourly S		to deliver and operate our in-sco	ope service(s) in-line with the BSC and REC obligations I	orought
Please	detail any exception(s) here:				
Appro	ved by				
Print I	lame	Signature (Electronic)	Position	Date	-

Note: Signed by Authorising Director i.e. a registered Director of the company (verifiable with Companies House, or in the case of a non-UK company a person having an equivalent position)

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#### 4.2 Testing Declaration and Evidence Submission

Questions	Guidance Points	Participant Response
4.2.1. Please confirm if there have been any changes to the information provided in the Pre-Qualification Submission form, or Placing Reliance Proposal, if you submitted one.	[Yes/No/Not Applicable] If yes, please provide an updated Pre-Qualification Submission or Placing Reliance form, highlighting the parts that have changed. If you were not required to submit a pre-qualification submission, then please select N/A.	
4.2.2 Please confirm the system(s) you are using are as outlined in your Pre-Qualification Submission form, or Placing Reliance Proposal, if you submitted one.	If there have been any changes, provide details and attach any updated documentation if available.	
4.2.3. Please confirm that for each MHHS requirement, you have successfully completed the relevant testing requirements in Pre-Integration Testing (PIT) to satisfy the BSC and/or REC Assessment Criteria, have provided PIT documentation including an approved MHHS-DEL1052 PIT Test Completion Report, and where applicable, agreed a work-off plan with the REC and BSC Code Managers for any outstanding defects.	[Yes/No] If no, please detail which requirements you have not successfully completed testing for, and any mitigation or alternative evidence you have agreed with the relevant Code Bodies. If you have agreed a work-off plan, please provide an update here of the latest status of agreed actions. Your PIT Approach and Plan should have included your defect identification and resolution policy, release management policy, and regression testing policy; if it does not, please provide these separately.	
4.2.4. Please confirm that all relevant process documentation, including Local Work Instructions (LWIs) for operatives have been updated for all business processes required to meet the BSC and REC MHHS assessment criteria.	[Yes/No] If you have made all the relevant changes to your LWI's, then yes is an acceptable response. If no, please detail expected timeframes to complete these updates; these should be completed by the final submission of the QAD.	

	These updates should cover all of the 'Business Processes' relevant to your role(s) from Section 5 of the QAD.	
To be completed in final submission of the QAD	[Yes/No]	
4.2.5 . Please confirm that for each testable MHHS requirement, you (and/or your third-party software provider) have successfully completed the relevant testing requirements in SIT or QT, and where applicable, agreed a work-off plan with the REC and BSC Code Managers for any outstanding defects.	If you and/or your third-party software provider have successfully completed the relevant testing for each MHHS requirement, then yes is an acceptable response. If no, please detail which requirements you have not successfully completed testing for, and any mitigation or alternative evidence you have agreed with the relevant Code Bodies.	
	If you have an agreed work-off plan, please provide an update here of the latest status of agreed actions.	

#### 4.3 Operational Readiness

Questions	Guidance Points	Participant Response
4.3.1 Please provide details on your user readiness plan to ensure that operatives will be able to perform the new and updated processes during live operations.	This should include plans for additional training, guidance documentation, user testing, dress rehearsals, and post go-live monitoring. For the initial submission of the QAD you should outline timeframes for planning, creating, and executing these activities, and in the final submission of the QAD you should outline the latest status of these activities. You may wish to provide a written summary of these planned activities, and/or upload relevant supporting documentation outlining this.	
4.3.2 What adjustments, if any, are required in your organisation's resource to meet the changes brought about by MHHS, and how does your organisation intend to fulfil these requirements?	This response should include a resourcing plan, specifically highlighting areas in which you would like to onboard expertise. Please reference changes	

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	required for both the migration period and post- migration activities.	
	For the initial submission of the QAD you should outline the expected timeframes for planning, creating, and executing a resourcing plan, and in the final submission of the QAD you should provide an update on the specific resourcing plan.	
	You may wish to provide a written summary of these planned activities, and/or upload relevant support documentation outlining this.	
4.3.3. How will you ensure that the cutover to the new and updated processes does not cause disruption to prevent you from meeting your obligations as set out in the BSC and/or REC (as appropriate)?	If an issue does arise during the cutover when you begin migrating, how will you ensure that it does not produce a failure to meet the BSC and/or REC obligations?	
4.3.4. Please provide details on your systems and processes to ensure the dual running of pre-MHHS and post-MHHS systems and processes?	Your response should include: To what extent you will be operating with similar or different systems for migrated and non-migrated meter points. Where you will be operating with both migrated and non-migrated meter points, how you will ensure your systems capture whether a meter point is migrated, hence which business processes should be followed.	
	Any additional monitoring or early-life support activities you will complete to ensure that the correct business processes for migrated and non-migrated meter points are being followed.	
	New Entrants who are not Qualified in a legacy role should respond "N/A".	
4.3.5 What controls will you have in place to ensure you don't exceed migration thresholds?	You should provide details of steps you have taken/are taking to ensure you have made the	

(Applicable to Suppliers Only)	required changes to meet and support the MHHS Requirements.	
	You should list and explain your limitations to any migration thresholds, ensuring to advise what plans and processes you have in place to monitor them please also advise the level of resource that is required	
4.3.6 Please provide confirmation that you will adhere to volumes and timelines agreed in your migration plan. (Applicable to Suppliers Only)	Ensure your response includes a commitment to the specified volumes, meeting deadlines, monitoring progress, and communicating updates.	
4.3.7 What controls will you have in place to ensure you will adhere with the requirements as defined in the Migration Framework and the Migration Schedule agreed between your organisation and the Migration Control Centre?	A mechanism is required to select candidate MPANs for migration over time that adhere to the volumes agreed within the migration plan. Similarly, mechanisms and processes will be required to enable the consumption of capacity envelopes / guidelines and the subsequent production of migration plans that adhere to the Migration Framework.	

## 4.4 Information Security and Data Protection

Questions	Guidance Points	Participants Response
4.4.1. How will you ensure that you have comprehensively identified and effectively assessed all information security and data protection risks associated with your in-scope services that were updated in line with the BSC and REC obligations brought about by MHHS?	Provide an impact assessment or risk register detailing security and data risk associated with the changes brought about by MHHS, including risk scoring, owners, applicable controls and mitigating actions. Where applicable, provide risk treatment plans detailing the response to any risk associated with MHHS requirements and code obligations.	

#### 4.5 Data Integration Platform (DIP)

Prior to moving to the production environment, the DIP Manager and/or the Code Bodies will review the following section in adherence with DSD002 requirements.

It is acceptrecegnised that Programme Participants canceld adoptutilise a myriad of different system architecturedesigns in meeting the MHHS requirements, however, it is recognised that the designs will generally fit into one of two patternss. The first pattern is where PMost participants will do doubt-have a singleprimary system that is responsible for running and orchestrating the business process, andprocess as well as interfacing directly to the DIP - a single primary architecture. The second pattern is where participants -will possibly-utilise the services of a DCP (DIP Connection Connection Provider) to in provide the interface to the DIP typically to their own back-end primary system - a hybrid architecture. The scope of Participant's QAD submissions must include the entire architecture; be it either a single primary architecture, or a more complex hybrid architecture. If a hybrid design is adopted, then the material must cover all components including DCP details as it is the complete system that defines the end-to-end system security, reliability and performance.

Participants also need to be aware that DCP systems do not qualify for MHHS access in their own right. Hence, individual participant submissions cannot reference other submissions or SIT evidence where their DCP may have been involved, i.e. each QAD submission must stand-alone solely on the evidence provided.

[Please note that Issue 101 'Ongoing Governance, Funding and	Operation of the DIP' is currently being consulted	d on and this section will be updated as required to reflect
the outcome of this consultation.]		

Questions	Guidance Points	Participants Response
4.5.1. Do you comply Provide evidence	Hopefully for most a simple exercise as	
of compliance with ISO 27000 series?	most of these question will be available	
(note: or equivalent provision in	in <u>Most large organisat</u> -organisat <u>ion</u> sal	
accordance with the DIP Rules)	will have company specific documents	
(Include DCP if applicable)	that -documentation standards, e.g.are	
	required for ISO27000 compliance and	
	hence providing evidence will should	
	not be an issue	
	Where companies are not ISO2700	
	compliant then submissions should	
	contain company documents covering	
	the following areas:	

	Penetration Testing & vulnerability management. Cyber incident response plan that would typically follow NCSC Guidance.	Formatted: List Paragraph, Space After: 1 pt, Line spacing: Exactly 13 pt
	Follow NCSC Guidance — incident management & response <u>Further</u> information will be provided by the DIP <u>Manager</u> Documentation supporting	
	Retaining all audit logs of basic user activities (e.g., logon, logoff, failed attempts); and Security events for all information systems and services that interact with the DIP Provide an overview of your process in place to retain any security events for all information systems that interact with	
	the DIP Should include written processes as applicable	
4.5.2. Provide evidence of process for retaining all audit logs of basic user activities (e.g., logon, logoff, failed attempts) and security events for all information systems and services that interact with the DIP (Include DCP if applicable)	Your Response should evidence rRetaining all audit logs of basic user activities (e.g., logon, logoff, failed attempts); and Security events for all information systems and services that interact with the DIP	
( <u>T</u> this can be via a DCP if applicable)	Provide an overview of your process in place to retain any security events for all	

	information systems that interact with the DIP	
4.5.3. Provide an overview of your process in place to retain any security events for all information systems that nteract with the DIP. t <u>This can be viaInclude a DCP</u> if		Formatted: Font: Not Italic
applicable)		Formatted: Font: Not Italic
<ul> <li>4.5.4. Provide evidence of logical network schematic of the information systems and services in scope that interact with the DIP, and include:         <ul> <li>a. a) services and</li> </ul> </li> </ul>	Provide an overview of your system         design         Provide Documentation of design – e.g.         logical design, physical design         specifications, System Schematics –	
functionality; <u>b.</u> <u>b)</u> gateway/boundaries functionality	diagrams Including: Security- firewalls, networks,	<ul> <li>Formatted: List Paragraph, Numbered + Level: 1 + Numbering Style: a, b, c, + Start at: 1 + Alignmer Left + Aligned at: 1.27 cm + Indent at: 1.9 cm</li> <li>Formatted: List Paragraph</li> </ul>
( <u>Include ∓this can be via a</u> DCP if applicable)	etc Connectivity to DCP Instance separation - (prod vs non-prod), DCP to MP-back- end system Resilience – e.g. failover Backup Audit	
	Service Availability - 98%, outside planned outage (unless otherwise defined) 98%, outside planned outage (unless otherwise defined) Service Recovery In the event of an unplanned	
	outage, each service shall be able to resume operation within 1 hour. Zero data loss - How RPO of 0f Zero is achieved	

4.5.5. <u>Provide evidence that</u> DIP Users systems are backed-up in accordance with best practice – demonstrable by adherence to ISO 27000 series processes and production of written process to back up systems, to include logical process diagrams; (tThis can be via a DCP if applicable)(Include DCP if applicable)			
4.5.6. Provide an overview of your	Your response should include		Formatted Table
process in place for <u>DIP specific Key</u>	documentation on how keys are stored		
Management.	and managed.		
(If applicable this will include how keys	As well as Assignment of Certificate		
are transferred for DCPs) As the question is in relation to the DIP,	admins and renewing and ensuring integrity of certificate admin role.		
then the 'keys' in question are the DIP	Any interaction with DCP and division of		
keys i.e. those keys used to establish	responsibility in managing certificate		
APIs and Webhooks between the DIP	should also be evidenced.		
and the DIP User's systems.			
Please indicate where management of			
API Keys will rest with your DCP, if applicable (Digital Certificate key			
management is still applicable for all			
DIP users)			
,			
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4.5.7. Provide an overview of processes, protocols, and liabilities between the DIP User and DCP where applicable.	The submissions will need to include DCP details (DCPs are not qualified) Processes, protocols and liabilities between the DIP User and their DCP, demonstrable by production of written documents (within limits of confidentiality): If the applicant is not willing to share the contract, then it may be evidenced by summary document of salient points. Ensure the DCP is ISO 27001 compliant.		
4.5.8. <u>Provide evidence that</u> De your systems have the ability to store data received via the DIP_for at least two years?			
<ul> <li>4.5.9. Please provide details of the following documents and processes that you have in place to ensure your compliance with data protection legislation: <ul> <li>a. Relevant data protection policies,</li> <li>b. Relevant data protection processes, and</li> <li>c. Where applicable, data protection impact assessments.</li> </ul> </li> </ul>	s <u>Follow NCSC Guidance – incident</u> <u>management &amp; response</u> W <del>de w</del> ritten processes as applicable		
4.5.10. Provide <u>documentation to show</u> an overview of your contingency plan in     place for: <u>a. D</u> data breaches, <u>b. S</u> security events, and <u>c. O</u> ether emergencies in relation     to DIP data., demonstrated by	Retaining all audit logs of basic user activities (e.g., logon, logoff, failed attempts); and Response should also cover Security events for all information systems and services that interact with the DIP	•	<b>Formatted:</b> List Paragraph, Numbered + Level: 1 + Numbering Style: a, b, c, + Start at: 1 + Alignment: Left + Aligned at: 0.63 cm + Indent at: 1.27 cm

But percentation of written december         Provide an overview of your process in drops to reaction any security versits for all dress to reactions systems that interact with dress to reaction any security versits for all dress to reactions and the processes as applicable           45.12. Consider controls with dress to reactions of dress to reactions of applicable         As above, asain/Your response should above both Participant and DCP systems froucted with 4.5.4 above)           4.5.13. These set decided architectural assessheet/interactions (or applicable)         As above, asain/Your response should above both Participant and DCP systems froucted with 4.5.4 above)         Frontide with 4.5.4 above)				
of their response bilities as a Dott of a stratement of a strat				
evidence that you are aware of your paconshibitions as Data Control or paconshibitions aspecific data paconshibitions aspecific data pas	4.5.11. How are DIP Users made aware	Provide an overview of your process in		
responsibilities as a Data Controller and/or Procession is accordance with relevant Data Protection Legislation;?       Image: Controller and/or Procession is accordance with relevant Data Protection Legislation;?         4.5.12, Convoit on Image: Controller addition of the second Altring Data Protection Legislation;?       Should Include written processes as addition to the second Altring Data Protection Legislation;?         4.5.12, Convoit on Image: Controller addition the second Altring Data Protection Legislation;?       A above, again Your response should show both Participant and DCP systems included with 4.5.4 above)         1 This can be via a DCP if applicable       A above, again Your response should show both Participant and DCP systems included with 4.5.4 above)         4.5.132, Froude DSD02 Annex Fourth Dusiness deveload to via a DCP if applicable       Provide an overview of your system dating three with the DIP Manage if you are not a SEC Party Find-Link instruct be completed your systems dusiness processes to ensure that you will have you signed back access and the SEC DSD02 Annex Fourth Documentation of design – 9.9. Logical design, physical design accesses to ensure that you will have you drave under your system design, physical design accesses to ensure that you will have both phane availability and DSS cutates and accesses and design accesses to ensure that you will have both phane availability and DSS cutates and accesses and design accesses to ensure that you will have both phane availability and DSS cutates and accesses accesses and accesses a	of their responsibilities as a Provide	place to retain any security events for all		
indigree Processor in accordance with relevant Data Protection Legislation?         Should include written processes as asplicable           45.12Can you confirm Exceld evidence_of_your addition of the second architectural schematics and/or descriptions of schematics and/or description	evidence that you are aware of your	information systems that interact with		
reterant Data Protection Legislation,2       Include written processes as applicable         4.5.12Can you confirm Provide an openiess as applicable       applicable         A.5.132Conf your confirm Provide an openiess of the standard of descriptions for equivalent documentation = velocity and of description to your final OAD submission (description the velocity and the Access effective whether you have you signed the Access and business processes to ensure that you you have updated your system design = backar desig	responsibilities as a Data Controller	the DIP		
4.542-Car you confirm Enough       Should included written processes as applicable         avidance of your adherence to the Authority - Data Beet Practice?       As above, again/Your response should         4.5.132, Provide logical architectural schematice?       As above, again/Your response should schematice?         As above, again/Your response should schematice?       As above, again/Your response should schematice?         As above, again/Your response should written processes as applicable/included written processes as included written processes as applicable/included written processes ane	and/or Processor in accordance with			
evidence_of_jour_admenace to the Authority's Data Best Practice?       Assauce_again Your response should schematics and/or descriptions (or equivalent documentation) evidence that in the event of a single component falling there will be no data loss.       Sewbow Dh Participant and DCP systems included with 4.5.4 above)         Have you signed the Access Agreement with the DLP Amager. Hyour set not a SSC Party? If not - this must be completed prior to your final-QAD are not a SSC Party? If not - this must be completed prior to your final-QAD submission (sees DSD002 Annex Four)       Provide an overview of your system design	relevant Data Protection Legislation.?			
Authority:=Data_Best Practice?       Authority:=Data_Best Practice?         4.5.132_Provide logical architectural schematics and/or descriptions for equivalent documentation) evidence that in the event of a single component falling there will be no data loss. (This can be via a DCP if applicable) Have you signed the Access Agreement with the DIP Manager I you submission (see DSD002 Annex Four)       As above, again?our response should schematics and the Access Agreement with the DIP Manager I you submission (see DSD002 Annex Four)       Frevide an overview of your systems design appendixed by the Access and the Access Agreement with the DIP Manager I you submission (see DSD002 Annex Four)       Frevide an overview of your systems design appendixed by the Access and the Acc	4.5.12. Can you confirm Provide	Should include written processes as		
4.5.132. Provide logical architectural schematics and/or descriptions for equivalent documentation - vedence that in the event of a single component falling there will be no data loss.       As above, againYour response should show both Participant and DCP systems (included with 4.5.4 above)         Have you eighed the Access Agreement with the DIP Manager if you are not a BSC Partly 11 not. This must be completed prior to your final-QAD submission (see DSD002 Annex Four)       Provide an overview of your system design Documentation of design - e.g. logical design, physical design, specifications System Schematics - diagram hubufines with the DIP have an availability of 08% outside planet dottage periods       Provide an overview of your system design Documentation of design - e.g. logical design, physical design, specifications System Schematics - diagram hubufines with the DIP have an availability of 08% outside planet dottage periods       Provide an overview of your system design Documentation of design - e.g. logical design, physical design, specifications System Schematics - diagram hubufines within the Secured Active periods       Formatted: list Paragraph, Space After: 1 pt, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm         Formatted: list Paragraph, Line spacing: Multiple 108 Resilinger	evidence of your adherence to the	applicable		
schematics and/or descriptions (or equivalent documentation) evidence that in the event of a single domogram failing there will be no data loss. (This can be via a DCPI i applicable) (Have you signed the Access Agreement with the DLP Manager: fyou are not a BSC Party? If not - this must be completed prior to your final QAO submission (cee DSD002 Annex Four)       Forwated: List Paragraph, Space After: 1 pt, Bulleted + Levet: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm         4.5.103. Please self-declare whether you have undated your systems and business processes to ensure that you will       Provide an overview of your system occumentation of design = e.g. logical design. hotwical design specifications yotems Schematics = diagrams including: Security- frewalls, networks, etc connectivity to DCP Instance = e.g. failover Backung within the Secured Active processing window;       Formatted: List Paragraph, Space After: 1 pt, Bulleted + Levet: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm	Authority's Data Best Practice?			
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applicable/(Include DCP if applicable)       Have you signed the Access         Agreement with the DIP Manager if you are not a BSC Party? If not - this must be completed prior to your final QAD submission (see DSD002 Annex Four)       Provide an overview of your system         4.5.163. Please self-dcclare whether you have updated your systems and pusiness processes to ensure that you will       Provide an overview of your system         - ensure services that interface with the DIP have an availability of 98% outside planned outage periods       Pormatted: indent at: 1.27 cm         - ensure you do not plan outages within the Secured Active processing window       Resilience - e.g. failover laskup Audit	failing there will be no data loss.			
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business processes to ensure that you       Documentation of design - e.g. logical         will       design, physical design specifications         System Schematics - diagrams         Including:         security-firewalls, networks, etc         Connectivity to DCP         Instance separation (prod vs non-prod)         Resilience - e.g. failover         within the Secured Active         processing window		Provide an overview of your system	*	Formatted: Indent: Left: 0 cm
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<ul> <li>ensure services that interface with the DIP have an availability of 98% outside planned outage periods</li> <li>Ensure you do not plan outages within the Secured Active processing window</li> <li>Ensure you do not plan outages within the Secured Active processing window</li> <li>Formatted: List Paragraph, Space After: 1 pt, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm</li> <li>Formatted: List Paragraph, Line spacing: Multiple 1.08 li, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: Backup Audit</li> </ul>	<u>will</u>	design, physical design specifications		
with the DIP have an availability of 98% outside planned outage periods       Security-firewalls, networks, etc Connectivity to DCP         - Ensure you do not plan outages within the Secured Active processing window       Hottomated: List Paragraph, Line spacing: Multiple 1.08 li, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm         Formatted: List Paragraph, Line spacing: Multiple 1.08 li, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm         Audit		System Schematics – diagrams		
of 98% outside planned outage periods       Security-tirewalls, networks, etc Connectivity to DCP Instance separation (prod vs non-prod) Resilience - e.g. failover processing window       Formatted: List Paragraph, Line spacing: Multiple 1.08 Ii, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm         Formatted: List Paragraph, Line spacing: Multiple 1.08 Ii, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm		Including:	*	
periods       Connectivity to DCP         - Ensure you do not plan outages       Instance separation (prod vs non-prod)         within the Secured Active processing window       Resilience - e.g. failover         Backup       1.27 cm         Audit       Formatted: List Paragraph, Line spacing: Multiple 1.08         Instance separation (prod vs non-prod)         Resilience - e.g. failover         Backup         Audit		Security- firewalls, networks, etc		Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm
<ul> <li>Ensure you do not plan outages within the Secured Active processing window</li> <li>Instance separation (prod vs non-prod) Resilience – e.g. failover</li> <li>Backup Audit</li> <li>Formatted: List Paragraph, Line spacing: Multiple 1.08</li> <li>Backup Audit</li> <li>Formatted: List Paragraph, Line spacing: Multiple 1.08</li> <li>Contemport</li> <li>Formatted: List Paragraph, Line spacing: Multiple 1.08</li> </ul>		Connectivity to DCP		
Private you do not plan oddages         within the Secured Active         processing window         Backup         Audit		Instance separation (prod vs non-prod)		
Backup     1.27 cm       Audit     Formatted: List Paragraph, Line spacing: Multiple 1.08				
Audit				
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				Formatted: List Paragraph, Line spacing: Multiple 1.08

If you cannot self-declare you will meet	98%, outside planned outage (unless
these requirements, please confirm by	otherwise defined)
when you expect to be able to make this	Service Recovery
self-declaration.	In the event of an unplanned outage,
	each service shall be able to resume
	operation within 1 hour.
	RPO of Zero
	As 4.5.4 above
4.5.1476. Have you signed the Access	Please ensure you sign the access
Agreement with the DIP Manager if you	Agreement if you need too.
are not a BSC Party?	This must be completed prior to your
	final QAD submission
If not - this must be completed prior to	
your final QAD submission (see	
DSD002 Annex Four)	

#### 4.6 Interface Management

Data Management	Questions	Guidance Points	MHHS requirements	Participant Responses	(	Formatted Table
Area						
4.6.1 Data	<ul> <li>What controls and</li> </ul>	Your response should capture the	MHHS-BR-SU-121			
Integration Platform	procedures do you have	controls you have in-place, with	MHHS-BR-SU-122			
(DIP)	in place around Market	regards to the DIP Interface, to	MHHS-BR-SU-123.1			
	Message management to	ensure that you will continue to meet your wider BSC and REC	MHHS-BR-SU-123.2			
	ensure they are robust	requirements.	MHHS-BR-SU-124			
	and appropriate to meet	requirements.	MHHS-BR-SU-126			
	the BSC and REC	For example, this may include the	MHHS-BR-SU-127			
	obligations brought about by MHHS that are	monitoring controls and escalation	MHHS-BR-SU-128			
	relevant to your role(s)?	process you have in place for	MHHS-BR-SU-129			
	(e.g.	missing or erroneous DIP	MHHS-BR-SU-140			
	- Error resolution	interfaces.	MHHS-BR-LD-058			
	- Monitoring of missing		MHHS-BR-LD-059.1			
	or erroneous DIP	You should also reference how you	MHHS-BR-LD-059.2			
	interfaces	have implemented processes	MHHS-BR-LD-062			
	<ul> <li>Data backups and</li> </ul>	around recovery processes and data backups to ensure that in the	MHHS-BR-LD-063			
	recovery processes)	case of any interuption	MHHS-BR-LD-064			
		to your access to the DIP, you will	MHHS-BR-MS-070			
	This may include controls in	be able resume your key business	MHHS-BR-MS-071.2			
	systems directly to the DIP, or	processes when the interface is	MHHS-BR-MS-072			
	middleware such as the DIP	restored.	MHHS-BR-MS-073			
	<del>adapter.</del>		MHHS-BR-MS-073.1			
		Your response may include controls	MHHS-BR-MS-074			
	You may wish to provide a	in systems directly to the DIP, or	MHHS-BR-MS-075			
	written summary of these	middleware such as the DIP	MHHS-BR-MS-083			
	<del>processes and controls,</del> and/or upload relevant	adapter.	MHHS-BR-MS-091			
	support documentation	Additionally, you may wish to	MHHS-BR-DS-138			Formatted: Line spacing: Multiple 1.08 li
	outlining these.	provide a written summary of these	MHHS-BR-DS-139.1			
	outining those.	processes and controls, and/or	MHHS-BR-DS-139.2			
	b) Please self-declare	upload relevant support	MHHS-BR-DS-143.1			
	whether you have updated	documentation outlining these.	MHHS-BR-DS-144			
	your systems and business		MHHS-BR-DS-157			
	processes to ensure that you		MHHS-BR-RS-135			
	,	1	Bit ite Bit ite ite			

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	will meet the following non-	NB: This question is not intended to	E2E0012		Formatted: Font: Italic
	functional requirements on an	capture the DIP Non-Functional	E2E0401		
	ongoing basis:	Requirements, which are covered in	E2E0402		
	- Maintain separate	Section 4.5 Data Integration	<del>E2E0403</del>		
	production and non-	<u>Platform.</u>	<u>E2E0404</u>		
	production environments		E2E1001		
	- Ensure all operating		E2E1009B		
	system, programming				
	languages and their				
	runtime libraries are at				
	recommended supported				
	versions				
	- Communicate any				
	planned or unplanned				
	changes to the DIP				
	- Maintain an archive of all				
	transactional data for 24				
	months				
	<ul> <li>Ensure services that</li> </ul>				
	interface with the DIP				
	have an availability of				
	98% outside planned				
	outage periods				
	- Ensure you do not plan				
	outages within the				
	Secured Active				
	processing window				
	If you cannot self-declare you				
	will meet these requirements,				
	please confirm by when you				
	expect to be able to make this				
	self-declaration.				
4.6.2 Data Transfer	a) How is your connection to	For Question 4.6.2 A - Your	MHHS-BR-SU-137 MHHS-BR-		
Network (DTN)	the DTN maintained to	response should include the	SU-138		
	send and receive flows?	following:	MHHS-BR-RS-143		
		- How you interface with	MHHS-BR-MS-081		Formatted: List Paragraph, Bulleted + Level: 1 +
	b) What systems do you use	the DTN i.e. what	MHHS-BR-MS-083		Aligned at: 0.63 cm + Indent at: 1.27 cm
	to send DTN flows and	<u>systems do you use to</u>			

what automation steps do	send and receive DTN	MHHS-BR-DS-149		
you have in place?	flows.	MHHS-BR-DS-157		
c) What are your validation	NB: The purpose of this and the			<b>Formatted:</b> Space After: 0 pt, Line spacing: Multiple 1.08 li
steps for DTN flows	next question is to provide further			1.00 11
received via the DTN?	context for the rest of the DTN			
	questions and role-specific			
d) How are details updated and maintained onto your	<u>questions; it may be easier to</u> answer these questions together.			
system?				Formatted: Font: Italic
e) How have you adapted				
your systems and				
processes regarding DTN flows to reflect the new				
MOA and Data Services				
Market Roles?				
f) How have you tested the DTN flows and to what				
extent?				
	For Question 4.6.2 B - Your			
b) What systems do you use to send DTN flows and	response should include the following:			
what automation steps do	- Which systems are used		4	Formatted: List Paragraph, Bulleted + Level: 1 +
you have in place?	to route and process			Aligned at: 0.63 cm + Indent at: 1.27 cm
	<u>inbound and outbound</u> DTN flows			
	- To what extent the routing			
	and processing of DTN			
	flows is automated, or			
	<u>manual</u> - For elements of this			
	process which are			
	<u>manual:</u> ○ What training and			
	o what training and documentation			<b>Formatted:</b> List Paragraph, Bulleted + Level: 2 + Aligned at: 1.9 cm + Indent at: 2.54 cm
	will be provided to			
	operatives to	<u> </u>		

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	ensure they		
	understand how to operate these processes? ○ Will they be managed onshore or off- shore? ○ What monitoring controls will you have in place to identify where manual intervention is product		
<u>c)</u> What are your validation steps for DTN flows received via the DTN?	<u>needed</u> <u>For Question 4.6.2 C - Your</u> <u>response should include the</u> <u>following:</u> <u>- Validation mechanisms in</u> <u>place to verify that the</u> <u>information received is</u> <u>correctly formatted and</u> <u>that you will be able to</u>		<b>Formatted:</b> List Paragraph, Space After: 1 pt, Bullet Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm
	<u>process it</u> <u>- Additional business</u> <u>process controls in place</u> <u>to identify where there are</u> <u>discrepancies between</u> <u>the data received and</u> <u>what you expected, then</u> <u>how the required next</u> <u>steps are identified e.g.</u> <u>updating internal records,</u> <u>or requesting clarification</u> from the sending party		<b>Formatted:</b> List Paragraph, Space After: 1 pt, Line spacing: Multiple 1.08 li, Bulleted + Level: 1 + Aligr at: 0.63 cm + Indent at: 1.27 cm

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d) How are details updated	For Question 4.6.2 D - Your			
and maintained onto your	response should include the			
system?	following:			
	- Monitoring controls you		4	Formatted: List Paragraph, Space After: 1 pt, Bulleted +
	have in place to ensure			Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm
	that where required. DTN			Level. 1 + Alghed at. 0.05 cm + Indent at. 1.27 cm
	updates have been			
	reflected throughout your			
	systems in a complete			
	and accurate manner?			
	- Where you identify that		4	Formatted: List Paragraph, Space After: 1 pt, Line
	DTN updates have not			spacing: Multiple 1.08 li, Bulleted + Level: 1 + Aligned
	been captured and			at: 0.63 cm + Indent at: 1.27 cm
	reflected throughout your			
	systems, how will you			
	ensure your systems and			
	records are then			
	appropriately updated?			
e) How have you adapted	For Question 4.6.2 E - Your			
your systems and	response should include the			
processes regarding DTN	following:			
flows to reflect the new	- For DTN flows both in the			
MOA and Data Services	scope of MHHS Testing			Formatted: List Paragraph, Bulleted + Level: 1 +
Market Roles?	and not in the scope of			Aligned at: 0.63 cm + Indent at: 1.27 cm
Market Kolos -	MHHS Testing, there			
	have been new scenario			
	variants added to reflect			
	the new MOA and Data			
	Services roles. How have			
	<u>you ensured that you</u>			
	have updated your			
	systems and processes to			
	<u>capture these new roles</u> and variants.			
f) How have you tested the	For Question 4.6.2 F - Your	· · · · · · · · · · · · · · · · · · ·		
DTN flows and to what	response should include the			
extent?	following:			
	tonowing.			Formatted: Normal
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4.6.3 Industry	a) What controls do	<ul> <li>For DTN flows not in the scope of MHHS Testing, there have been new scenario variants added. Additionally, the changes you have made for MHHS may have had further consequential impacts on how data from, and for, other DTN flows is captured, processed, and stored. Have you performed any testing over these other DTN flows, else how will you ensure they will continue to function as expected.</li> <li>What monitoring controls do you</li> </ul>	MHHS-BR-SU-123		
Standing Data (ISD)	you have in-place to	have in place to ensure that ISD	MHHS-BR-LD-059		Formatted: Indent: Left: 1.27 cm, No bullets or numbering
	ensure that ISD updates are captured within all	updates have been reflected throughout your systems in a	MHHS-BR-MS-071 MHHS-BR-MS-071.1		Formatted Table
	relevant systems to support wider business	complete and accurate manner?	MHHS-BR-DS-069		
	processes?	Where you identify that ISD	MHHS-BR-DS-139		
		updates have not been			
		automatically captured, how will			
		you ensure your systems and records are then appropriately			
		updated?			
4.6.4 Electricity Enquiry Service	a) Will you require access to the Electricity	Electricity Market Participants can	MHHS-BR-SU-139	4	Formatted: Indent: Left: 1.27 cm, No bullets or
(EES)	Enquiry Service to	access EES via a variety of methods, including a GUI, API,	MHHS-BR-DS-156 MHHS-BR-MS-090		numbering
,	receive up-to-date	and via Bespoke Reports.	MUU9-RK-M9-090		
	Electricity Market				
	information, and if so, do you have the required	The changes to your systems and			
	access you need via the	processes may require you to			
	GUI and/or API? Else, will	receive information from EES			

you make an application	differently from how you currently	
for the access you need?	receive it. Therefore, please	
	confirm whether you already have	
	the access that you will need to	
	EES, else outline when you will	
	apply for updated access.	
	Additionally, if you have access to	
	the EES API please confirm that	
	you will update your interface in-	
	line with the new technical	
	specification e.g. will be able to	
	process queries that return	
	additional data items compared to	
	currently.	

# 5. Role-Specific Sections

Please ensure you directly answer each question, including the specific areas noted in the guidance points.

## 5.1 Supplier

#### 5.1.1 Business Processes

Process Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.1.1.1 Initial Registrations, including New Connections In line with MHHSP- BP001, MHHSP- BP002, MHHSP- BP003	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? ( <i>e.g. to inputs,</i> workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process ( <i>e.g.</i> E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.1.1.1 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC and REC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-</li> </ul>	MHHS-BR-SU-001 MHHS-BR-SU-004 MHHS-BR-SU-019 MHHS-BR-SU-048 MHHS-BR-SU-048.1 MHHS-BR-SU-049	

end solution has not yet been tested.	
<ul> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> </ul>	
<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements. For example, will you perform further testing in your own UIT environment, and if so, what will be the scope of this testing and who will be involved.</li> </ul>	
<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
<ul> <li>For Question 5.1.1.1 B - Your response should include the following points;</li> <li>How you will obtain registration details for an Initial Registration, and maintain records accordingly</li> <li>Any controls in place to monitor and resolve missing/erroneous DIP interfaces. Please reference IF001, IF002 and any other flows you deem relevant in your response.</li> </ul>	

	c)	What controls do you have in place to monitor for missing or erroneous DIP interfaces, particularly regarding the IF001 and IF002 that should coincide with the CSS2370.	<ul> <li>For Question 5.1.1.1 C - Your response should include the following point;</li> <li>Method(s) to request MPAN creation from the DNO when a new connection is required, and how you will ensure you include the following information in your request: Connection Type, Energy Direction, Metered/Unmetered Indicator, Market Segment</li> </ul>		
	d)	How will you ensure that you capture all of the information required in the Secure Data Exchange Portal (SDEP) message requesting the DNO to establish a new metering point?			
5.1.1.2 Appointment with Change of Supplier In line with MHHSP- BP002, MHHSP- BP003	a)	Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.1.1.2 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still</li> </ul>	MHHS-BR-SU-002 MHHS-BR-SU-005 MHHS-BR-SU-006 MHHS-BR-SU-007 MHHS-BR-SU-008 MHHS-BR-SU-009 MHHS-BR-SU-010 MHHS-BR-SU-010 MHHS-BR-SU-012 MHHS-BR-SU-013 MHHS-BR-SU-015 MHHS-BR-SU-015 MHHS-BR-SU-017 MHHS-BR-SU-019 MHHS-BR-SU-059 MHHS-BR-SU-106	

	<ul> <li>enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-SU-107 MHHS-BR-SU-135 MHHS-BR-SU-136 MHHS-BR-SU-158 MHHS-BR-SU-159 MHHS-BR-SU-160	
b) What controls do you have in place to verify that a Qualified Data Service and/or Metering Service is appointed for the relevant Market Segment from the Registration Effective From Date (EFD)?	<ul> <li>For Question 5.1.1.2 B - Your response should include the following:</li> <li>Method(s) to identify and appoint a Qualified Data Service and/or Metering Service to the relevant Market Segment, and ongoing monitoring controls to ensure the correct appointment is in place.</li> </ul>		
<ul> <li>c) What controls will you put in place to manage Supplier Agent activities to ensure the end-to-end process is carried out within MHHS defined timescales. This includes:         <ul> <li>a. Data Services activities e.g. sending Consumption data</li> <li>b. MOA activities e.g. sending MTDs</li> </ul> </li> </ul>	<ul> <li>For Question 5.1.1.2 C - Your response should include the following:</li> <li>Controls to ensure Supplier Agent Activities are carried out in line with MHHS defined timescales and messages are processed within 60 minutes of receipt, outlined in the operational choreography. Controls may include ongoing monitoring processes and follow-up communication where activities are delayed. Please refer to both:         <ul> <li>Data Service activities</li> <li>MOA activities</li> </ul> </li> </ul>		
<ul> <li>d) How will you identify when you need to raise a dispute to switch meter reads given the amendments to the triggers for</li> </ul>	For Question 5.1.1.2 D - Your response should include the following:		

	-			
	raising a dispute, the extension of the application to cover half hourly metering point?	<ul> <li>Methods to identify raising a dispute to switch meter reads.</li> </ul>		
		<ul> <li>For Question 5.1.1.2 E - Your response should include the following:</li> <li>Controls to ensure a dispute is identified, raised and resolved as early as possible.</li> </ul>		
	place to ensure the end-to-end process is carried out within MHHS defined timescales as	<ul> <li>For Question 5.1.1.2 F - Your response should include the following:</li> <li>Processes to identify any discrepancies between metering details received from the SMRS, and information from the Metering Service, and how these discrepancies will be flagged to the appropriate agent in a timely manner</li> </ul>		
	<ul> <li>g) How will you identify discrepancies between metering details received from SMRS with information from the Metering Service?</li> </ul>			
5.1.1.3 Appointment without Change of Supplier In line with MHHSP- BP002, MHHSP- BP003	· -	<ul> <li>For Question 5.1.1.3 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	See Q2	

	<ul> <li>changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> <li>b) Please note where controls are</li> </ul>	<ul> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>		
5.1.1.4 Change of Market Segment In line with MHHSP- BP011	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to the E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g.	<ul> <li>Q5.1.1.2.</li> <li>For Question 5.1.1.4 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> </ul>	MHHS-BR-SU-021.1 MHHS-BR-SU-022 MHHS-BR-SU-097 MHHS-BR-SU-098 MHHS-BR-SU-099 MHHS-BR-SU-100 MHHS-BR-SU-101 MHHS-BR-SU-102 MHHS-BR-SU-103 MHHS-BR-SU-105 MHHS-BR-SU-108	

	E2E process changes tested in own UIT environment)	<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-SU-109 MHHS-BR-SU-019	
b	<ul> <li>How will you liaise with the customer, LDSO and Metering Service as appropriate to coordinate the change and agree a target work date?</li> </ul>	<ul> <li>For Question 5.1.1.4 B - Your response should include the following:</li> <li>Process in place to coordinate and conduct a change of Market Segment with the appropriate parties.</li> <li>How you will communicate between the customer, LDSO and metering service to arrange a date for completion of work. Please also include details of how you will ensure the target date is met, and if there is any delay, how you will liaise with the Metering Service/LDSO to provide a prompt update.</li> </ul>		
c)	What controls do you have in place to ensure that you identify when new service providers are required?	<ul> <li>For Question 5.1.1.4 C - Your response should include the following:</li> <li>Any controls in place to identify when a new service provider is required following a change of Market Segment</li> </ul>		

5.1.1.5 Identifying Faults	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have bee made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have</li> </ul>	MHHS-BR-SU-132 MHHS-BR-SU-133 MHHS-BR-SU-134	
	b) How are you notified of any faults?	<ul> <li>For Question 5.1.1.5 B - Your response should include the following:</li> <li>Your chosen method(s) to be notified of any faults to metering equipment. This may be via the D0001 flow, or any other bilaterally agreed method.</li> </ul>		

	c) Where applicable how do you notify the UMSDS of any faults?	<ul> <li>For Question 5.1.1.5 C - Your response should include the following:</li> <li>Your chosen method(s) to notify the UMSDS of any faults.</li> </ul>		
5.1.1.6 Disconnections In line with MHHSP- BP007	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.1.1.6 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-SU-051 MHHS-BR-SU-054 MHHS-BR-SU-055 MHHS-BR-SU-056	
	b) What systems and processes do you have in place to ensure that when confirmation of disconnection of a Meter Point Administration Number (MPAN)	<ul> <li>For Question 5.1.1.6 B - Your response should include the following:</li> <li>Processes in place to receive notifications of disconnected MPANs and how records of</li> </ul>		

	<ul> <li>is received that records are maintained accordingly?</li> <li>c) What controls do you have in place to ensure the disconnection is correct before continuing?</li> </ul>	<ul> <li>disconnections will be stored and maintained.</li> <li>For Question 5.1.1.6 C - Your response should include the following:</li> <li>Validation controls to ensure the details around a disconnection request is correct before continuing with completion of work, including receipt from a correct party, reason for disconnection and any other relevant information.</li> </ul>		
	<ul> <li>d) How will you raise any issues if you do carry out the disconnection erroneously?</li> </ul>	<ul> <li>For Question 5.1.1.6 D - Your response should include the following:</li> <li>The chosen method(s) to raise any issues identified following completion of an erroneous disconnection to amend or reverse the disconnection.</li> </ul>		
5.1.1.7 Change of Energisation Status	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.1.1.7 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still</li> </ul>	MHHS-BR-SU-053 MHHS-BR-SU-060 MHHS-BR-SU-061 MHHS-BR-SU-062 MHHS-BR-SU-063 MHHS-BR-SU-064 MHHS-BR-SU-065	

		<ul> <li>enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
	b) What systems and processes do you have in place to ensure that Change of Energisation status notifications are received via different interfaces depending on segment, and that records updated accordingly?	<ul> <li>For Question 5.1.1.7 B - Your response should include the following:</li> <li>Processes in place to receive notifications of Change of Energisation notifications via IF flows or other mechanisms and how records of energisation status change will be stored and maintained.</li> </ul>	
5.1.1.8 Unmetered Supply ( <b>UMS</b> ) Exemption (If applicable)	<ul><li>If you wish to apply for the exemptions for UMS please fill in the below and provide evidence on how your controls work in practice:</li><li>a) What controls do you have in place to ensure you will not register any UMS sites?</li></ul>	<ul> <li>For Question 5.1.1.8 A - Your response should include the following:</li> <li>When appointing sites, any controls in place to ensure you are Qualified to be appointed.</li> </ul>	
	<ul> <li>b) What controls do you have in place to ensure you do not migrate a UMS site into MHHS if it is an existing registration?</li> </ul>	<ul> <li>For Question 5.1.1.8 B - Your response should include the following:</li> <li>Controls to ensure UMS sites are only migrated into MHHS if the site is not an existing registration.</li> </ul>	
	c) What controls do you have in place to identify where you have appointed a UMS site and how you will de-appoint this site?	For Question 5.1.1.8 C - Your response should include the following:	

	<ul> <li>d) If you are currently a Supplier that has UMS Sites, please provide your clear and detailed plan on how you intend to de- register these sites and to provide evidence of it?</li> </ul>	<ul> <li>Processes to identify where UMS sites have been appointed and what is your process to de-appoint these.</li> <li>For Question 5.1.1.8 D - Your response should include:</li> <li>The plan should be clear and detailed explaining how you intend to de-register the sites that you are currently appointed to.</li> <li>Failure to provide this will impact your exemption.</li> </ul>		
	e) Please also confirm that you understand that appointing UMS sites without being qualified could potentially result in re-qualification.	<ul> <li>For Question 5.1.1.8 E - Your response should include the following:</li> <li>A statement of confirmation of the understanding that appointing UMS sites without the appropriate qualification could potentially result in a re-Qualification.</li> </ul>		
5.1.1.9 Migration Requirements	<ul> <li>a) What controls do you have in- place to ensure you meet the specific registration and appointment requirements during a migration?</li> </ul>	<ul> <li>For Question 5.1.1.9 A - Your response should include the following:</li> <li>a) What controls will you have in place when you are the incoming Supplier to differentiate whether an MPAN is legacy, and if so how will you decide whether to migrate the MPAN as part of the Change of Supplier or Change of Agent process</li> <li>Additionally, how will you ensure the</li> </ul>	SUP-001 MHHS-Migration-CoS- SUP-002 MHHS-Migration-CoS- SUP-003 MHHS-Migration-	

5.1.1.10 Operational Requirements	a) What controls do you have in place to ensure that you meet all of your requirements as outlined in the Operational Choreography Version 5.4?	effective from date for CoA appointments is at least 5 working days in the future from the transmission date of the IF-031. Furthermore, how will you ensure you do not have open IF-031's which are left unresponded to by Agents beyond appointment effective from dates. Finally, what controls do you have in place to ensure you will not attempt to change the Market Segment of an MPAN as part of the Migration. For Question 5.1.1.10 A - Your response should include the following:	MHHS-RMigration- CoS-SUP-002 MHHS-RMigration- CoA(MS)-SUP-003 MHHS-RMigration- CoA(MS)-SUP-004 MHHS-Migration-Can- SUP-002 MHHS-Migration-Mis- SUP-001 MHHS-Migration-Mis- SUP-002 MHHS-Migration-Mis- SUP-003 OPC_120 OPC_140	
		<ul> <li>Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention.</li> <li>How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)</li> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing, such as OPC_320A to make data available to other parties (as applicable) by 06:00hrs the next Working Day</li> </ul>	OPC_190 OPC_200 OPC_210 OPC_220 OPC_280 OPC_300 OPC_320A OPC_320B OPC_340 OPC_390B OPC_400 OPC_420 OPC_420 OPC_440 OPC_490 OPC_510 OPC_530	

		after receiving a notification of disconnection.		
5.1.1.11 Additional BMU Mapping	<ul> <li>a) When processing a new or changed ABMU, how do you identify whether the relevant MPANs are Settling as MHHS migrated MPANs and where they are identified as such how do you ensure MDS is notified?</li> </ul>	<ul> <li>For Question 5.1.1.11 - Your response should include the following:</li> <li>Both processes and controls to identify where a new or changed MPAN_ABMU mapping and identify whether the MPAN(s) is/are on Half Hourly or Legacy Settlement.</li> <li>Processes to notify BSC Central Systems of this change, together with the Effective From Settlement Date, via the D0297 where the Metering System is Registered in the MHHS Arrangements.</li> </ul>	MHHS-BR-SU-166 MHHS-BR-SU-168	

## 5.1.2 Data Management

Data Management	Questions	Guidance Points	MHHS requirements	Participant Responses
Area 5.1.2.1 Amendment of Existing Appointment Conditions	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.1.2.1 A - Your response should include the following:</li> <li>Where there has been an amendment to any existing appointments, any controls in place to ensure all updates are identified and maintained accurately within relevant systems.</li> </ul>	MHHS-BR-SU-031 MHHS-BR-SU-032 MHHS-BR-SU-033 MHHS-BR-SU-034 MHHS-BR-SU-035 MHHS-BR-SU-036	
	b) How will you identify when an appointment amendment is required?	<ul> <li>For Question 5.1.2.1 B - Your response should include the following:</li> <li>Processes to determine when an existing Service Provider appointment requires an amendment.</li> </ul>		
	c) What controls do you have in place to monitor and review rejected appointment amendments, and where appropriate to resubmit with the required information?	<ul> <li>For Question 5.1.2.1 C - Your response should include the following:</li> <li>Processes to publish a Supplier Service Appointment Request for a proposed Service Provider amendment via the DIP.</li> <li>Processes to receive, monitor and review rejected appointment amendment requests, and where required,</li> </ul>		

		how you will re-issue the request.		
5.1.2.2 Consumption Amendment	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.1.2.2 A - Your response should include the following:</li> <li>Where there has been an amendment to consumption, any controls in place to ensure all updates are identified and maintained accurately within relevant systems.</li> </ul>	MHHS-BR-SU-111 MHHS-BR-SU-112 MHHS-BR-SU-116 MHHS-BR-SU-117	
	<ul> <li>b) How do you identify when an override read is required and that consumption issued to Settlement is incorrect? Please note the consumption should be amended pre-RF.</li> </ul>	<ul> <li>For Question 5.1.2.2 B - Your response should include the following:</li> <li>Processes to determine when an override read is required. Please refer to how you will ensure consumption is only amended pre-RF.</li> </ul>		
	c) How do you identify when you need to raise a dispute where a consumption amendment is required post-RF? Please note your response should include the checks in place for the materiality criteria of the consumption amendment.	<ul> <li>For Question 5.1.2.2 C - Your response should include the following:</li> <li>Processes to determine where a dispute needs to be raised if a consumption amendment is required post-RF. Your response should include how you will check that the Consumption Amendment is over the minimum materiality criteria for any pre-RF amendments.</li> </ul>		

,	estion 5.1.2.3 A - Your		
re captured ant systems to business n scope services BSC and REC ught about by Pro Dire mai You incli info	ee should include the g: ere there has been a change Customer Direct Contract, controls in place to ensure updates are identified and ntained accurately within evant systems. cesses to obtain Customer ect Contract response and ntain records accordingly. ur response should also ude how you will utilise this rmation in future requests Data Service appointments the notified MPANs.	MHHS-BR-SU-018 MHHS-BR-SU-030	
e that updates ithin all relevant port wider sses? ( <i>this is</i> <i>er-owned</i> ation data such , SMSO, and Class/SSC upplier owned ation data such er Point Location address, GSP ID, Energy	estion 5.1.2.4 A - Your se should include the g: ere there have been updates egistration data, any controls lace to ensure all changes captured and maintained urately within relevant tems. Please refer to both: a. Supplier-owned registration data, and b. Non Supplier-owned registration data in your response.	MHHS-BR-SU-075 MHHS-BR-SU-075.1 MHHS-BR-SU-076 MHHS-BR-SU-077 MHHS-BR-SU-078 MHHS-BR-SU-080 MHHS-BR-SU-084 MHHS-BR-SU-085 MHHS-BR-SU-086 MHHS-BR-SU-087 MHHS-BR-SU-088 MHHS-BR-SU-089 MHHS-BR-SU-090 MHHS-BR-SU-091 MHHS-BR-SU-092	
i e a IL or	ion data such r Point Location ddress, GSP	pplier owned ion data such r Point Location ddress, GSP D, Energy n, Metered	pplier owned ion data such r Point Location ddress, GSP D, Energy n, Metered MHS-BR-SU-088 MHS-BR-SU-089 MHS-BR-SU-090 MHS-BR-SU-091 MHS-BR-SU-092 MHS-BR-SU-092

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				MHHS-BR-SU-096.2	
				MHHS-BR-SU-096.3	
5.1.2.5 Related	a) Wh	at controls do you have in-	For Question 5.1.2.5 A - Your	MHHS-BR-SU-081	
Meter Point Data	plac	ce to ensure that interface	response should include the	MHHS-BR-SU-083	
		a updates are captured	following:	MHHS-BR-SU-131	
		hin the relevant systems to			
		oport wider business	<ul> <li>Where you have obtained</li> </ul>		
		cesses for in scope services ine with the BSC and REC	updates to Related Meter Point		
		igations brought about by	Data, any controls in place to ensure all records are		
		HS?	maintained completely and		
	10111		accurately in relevant systems.		
	b) Hov	w will you identify related	For Question 5.1.2.5 B - Your	1	
	MP	ANs, as well as identify any	response should include the		
		anges required to the	following:		
		tering Point Relationships in			
	the	Registration Services?	<ul> <li>Processes to identify related</li> </ul>		
			MPANs, including processes to		
			determine where changes are		
			required to the Metering Point Relationships in the		
			Registration Services.		
	c) Wh	at controls do you have in	For Question 5.1.2.5 C - Your	-	
		ce to ensure that the	response should include the		
		pointment requests are only	following:		
		iated by the Primary			
		tering Points but to ensure / data relating to the	Controls to ensure that any		
		condary Metering Points is	appointment requests are only		
		dated accordingly?	received from Primary Metering		
			Points. Your response should also		
			include how you will ensure any		
			changes to data relating to		
			Secondary Metering Points is		
			updated accurately and maintained		
			within all relevant systems.		

5.1.2.6 Import/Export MPANs	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.1.2.6 A - Your response should include the following:</li> <li>How you will obtain Import/Export linkage updates and maintain records accordingly in all relevant systems.</li> </ul>	MHHS-BR-SU-094 MHHS-BR-SU-096
	b) How will you identify where changes are needed to Import/Export associations?	<ul> <li>For Question 5.1.2.6 B - Your response should include the following:</li> <li>Processes to identify where changes to Import/Export linkages are required, and following this, how you will publish an Import/Export linkage update to the Registration Service via a bilaterally agreed method.</li> </ul>	
5.1.2.7 Meter Technical Details (MTDs)	a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?	<ul> <li>For Question 5.1.2.7 A - Your response should include the following:</li> <li>Where there have been updates to Meter Technical Details, any controls in place to ensure all records are maintained completely and accurately in relevant systems.</li> </ul>	MHHS-BR-SU-050         MHHS-BR-SU-052         MHHS-BR-SU-066         MHHS-BR-SU-067         MHHS-BR-SU-068         MHHS-BR-SU-069         MHHS-BR-SU-070         MHHS-BR-SU-071         MHHS-BR-SU-072         MHHS-BR-SU-073
	b) How will you identify discrepancies between metering details received from Supplier Meter Registration	For Question 5.1.2.7 B - Your response should include the following:	MHHS-BR-SU-132 MHHS-BR-SU-133

Service (SMRS) with information from the Metering Service?	Processes to identify any discrepancies between metering details received from the SMRS, and information from the Metering Service, and how these discrepancies will be flagged to the appropriate agent in a timely manner.	
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# 5.2 Licensed Distribution System Operator (LDSO)<sup>2</sup>

#### 5.2.1 Business Processes

Business Process	Questions	Guidance Points	MHHS requirements	Participant Responses
Area 5.2.1.1 MOA and/or Data Services Appointments. In line with MHHSP- BP002, MHHSP- BP003	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.2.1.1 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC and REC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements. For</li> </ul>	MHHS-BR-LD-002 MHHS-BR-LD-003	

<sup>2</sup> Known under the REC as a Distribution Network Operator (DNO)

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		example, will you perform further testing in	
		will be the scope of this testing and who will be involved.	
		<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
	<ul> <li>b) How will you identify and investigate any discrepancies between notification appointments</li> </ul>	For Question 5.2.1.1 B - Your response should include the following:	
	via the DIP and data received from the Metering Service via the DTN?	• Methods (manual or automated) to identify any discrepancies between appointments notified by the DIP and data received from the Metering Service via the DTN	
		How discrepancies will be investigated, flagged to the appropriate parties, and the process taken to subsequently resolve	
5.2.1.2 Change of Connection Type	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your</li> </ul>	For Question 5.2.1.2 A - Your response should include the following:	MHHS-BR-LD-047 MHHS-BR-LD-048 MHHS-BR-LD-049
In line with MHHSP- BP011B	E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	MHHS-BR-LD-050 MHHS-BR-LD-051
	optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated	Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.	
	E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>How you will gain assurance that even with these additional changes, your wider end- to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> </ul>	

	<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
<ul> <li>b) What processes and controls do you have in place to ensure you meet the updated requirements for the change of connection type, i.e. registration services updated within 2 working days after completion of the work, and that this process is coordinated with the Supplier?</li> </ul>	<ul> <li>For Question 5.2.1.2 B - Your response should include the following:</li> <li>Agreed method(s) of coordinating the target work date with the Supplier and your operatives</li> <li>Agreed method(s) of notifying the Registration Service within the required timescales.</li> </ul>	
c) How will you agree a target date with the Supplier and ensure you complete the work on the agreed target date?	<ul> <li>For Question 5.2.1.2 C - Your response should include the following:</li> <li>Following a request to change the Connection Type, how you will agree a date with the Supplier for completion of work.</li> <li>Processes to action the change of Connection Type, including scheduling works with your operatives and ensuring the works have been completed as and when expected.</li> </ul>	
d) What controls do you have in place to identify when an existing connection type is inaccurate and ensure any queries are resolved?	<ul> <li>For Question 5.2.1.2 D - Your response should include the following:</li> <li>Controls to ensure the Registration Service is updated of the Change to Connection Type within 2WDs. Please refer to the IF-043 flow in your response</li> <li>Controls in place to identify any inaccuracies in existing connection types, ensuring relevant parties are informed of</li> </ul>	

		the discrepancy and resolving the issue in a timely manner		
5.2.1.3 <b>Disconnections</b> In line with MHHSP- BP007	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.2.1.3 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-LD-013 MHHS-BR-LD-015 MHHS-BR-LD-016 MHHS-BR-LD-017 MHHS-BR-LD-018 MHHS-BR-LD-019 MHHS-BR-LD-020 MHHS-BR-LD-020.1	
	b) What controls do you have in place to ensure the disconnection is correct before continuing, and to raise any issues if it is carried out erroneously.	<ul> <li>For Question 5.2.1.3 B - Your response should include the following:</li> <li>Controls in place to validate a disconnection request from the Supplier, Customer, Registration Service or UMSO and ensure that a disconnection is only carried out where required.</li> <li>Process in place to raise an issue with the relevant agent if a disconnection is incorrectly carried out.</li> </ul>		

E 0 1 1 Change of	2	Evoluting the functional algorithms	For Question F. Q. 1. 4. A. Mour resonance		
5.2.1.4 Change of	a)	5	For Question 5.2.1.4 A - Your response should	MHHS-BR-LD-022	
Energisation Status		tested in PIT/SIT/QT, what further	include the following:	MHHS-BR-LD-023	
		changes have been made to your		MHHS-BR-LD-024	
In line with MHHSP-		E2E business process? (e.g. to	A disclosure of changes to systems and	MHHS-BR-LD-025	
BP008		inputs, workflows, integrations, and downstream systems and processes, even where DIP	processes which have not been tested as part of PIT/SIT/QT, as above.	MHHS-BR-LD-026	
		optionality has been exercised; this	• Any instances where you have opted out of		
		may be nothing). In the case that	receiving DIP Publications, and how you		
		changes have been made, how have you tested these updated	will ensure you will receive this information.		
		E2E business process (e.g. E2E process changes tested in own UIT environment)	How you will gain assurance that even with these additional changes, your wider end- to-end systems and processes will still enable you to operate in line with your BSC		
			<ul><li>and REC Code Requirements, as above.</li><li>If there are no relevant additional changes</li></ul>		
			to disclose for this business process, please write "N/A".		
	b)	Once a change of energisation	For Question 5.2.1.4 B - Your response should		
		request has been processed, what controls do you have in place to	include the following:		
		ensure that accurate meter reads are received from the Metering or Data Service, where appropriate?	<ul> <li>Method(s) (automated or manual) to process a change of energisation request. Your response should include processing the IF-008 within 60 minutes.</li> </ul>		
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			<ul> <li>Controls in place to ensure complete and accurate meter readings are received from the Metering or Data Service and processed in a timely manner</li> </ul>		

5.2.1.5 New Connections In line with MHHSP- BP001	a)	Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E	<ul> <li>For Question 5.2.1.5 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-</li> </ul>	MHHS-BR-LD-010 MHHS-BR-LD-010.1 MHHS-BR-LD-011 MHHS-BR-LD-012
		process changes tested in own UIT environment)	<ul> <li>to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
5.2.1.6 Operational Requirements	a)	What controls do you have in place to ensure that you meet all of your requirements as outlined in the Operational Choreography Version 5.4.	<ul> <li>For Question 5.2.1.6 A - Your response should include the following:</li> <li>Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention.</li> <li>How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)</li> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing, such as OPC_320A to make data available to other parties (as applicable) by 06:00hrs the next Working Day after receiving a notification of disconnection.</li> </ul>	OPC 061           OPC_130           OPC_160           OPC_210           OPC_250           OPC_270           OPC_280           OPC_290           OPC_310A           OPC_310B           OPC_320A           OPC_320B           OPC_360

	<u>OPC_370</u>	
	OPC_410	
	OPC_420	
	OPC_430B	
	OPC_440	
	OPC_480	
	OPC_490	
	OPC_500A	
	OPC_500B	
	OPC_510	
	OPC_520	
	<u>OPC 550</u>	

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### 5.2.2 Data Management

5.2.2.1 Meter			MHHS requirements	Participant Responses
Technical Details (MTDs)	<ul> <li>a) What controls do you have inplace to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.2.2.1 A - Your response should include the following:</li> <li>The chosen method(s) (automated or manual) to receive MTDs from the Metering Service</li> <li>How records of MTDs will be held within your system.</li> <li>Controls in place to ensure updates to MTDs are actioned appropriately and updated in your system in a timely manner</li> </ul>	MHHS-BR-LD-012.1 MHHS-BR-LD-027 MHHS-BR-LD-028 MHHS-BR-LD-030 MHHS-BR-LD-031 MHHS-BR-LD-054	
5.2.2.2 Registration Data	<ul> <li>a) What controls do you have inplace to ensure that updates are captured within all relevant systems to support wider business processes? (<i>this is relevant to:</i> <ul> <li><i>MPL Address, GSP Group</i></li> <li><i>ID, Metered Status,</i></li> <li><i>Domestic Premises</i></li> <li><i>Indicator, Energy</i></li> <li><i>Direction, Related MPAN,</i></li> <li><i>Import/Export Link</i>)</li> </ul> </li> <li>b) What controls do you have in place to maintain Distribution Use</li> </ul>	<ul> <li>For Question 5.2.2.2 A - Your response should include the following:</li> <li>The chosen method(s) (automated or manual) to receive Registration Data from the Registration Service</li> <li>How records of Registration Data will be held within your system</li> <li>Controls in place to ensure updates to Registration Data are actioned appropriately and updated in your system in a timely manner.</li> <li>For Question 5.2.2.2 B - Your response should include the following:</li> </ul>	MHHS-BR-LD-033 MHHS-BR-LD-034 MHHS-BR-LD-035 MHHS-BR-LD-036 MHHS-BR-LD-037 MHHS-BR-LD-04.1 MHHS-BR-LD-04.2 MHHS-BR-LD-043	

	with their Charging Method Statement	Controls in place to maintain DUoS Tariff IDs in line with their Charging Method Statement e.g., ongoing monitoring. You should also include your processes for flagging and resolving any discrepancies between DUoS Tariff IDs and their corresponding Charging Method Statements.		
	<ul> <li>c) How will you manage and process requests to update the Metered Indicator and ensure records are updated accordingly?</li> </ul>	<ul> <li>For Question 5.2.2.2 C- Your response should include the following;</li> <li>Whether the applicant processes a change of metered indicator in compliance with the relevant requirements or whether they use a workaround. If the latter, the applicant should detail that workaround and how it is compliant to the BSC</li> </ul>		
5.2.2.3 Consumption Data	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.2.2.3 A Your response should include the following:</li> <li>Process(es) (automated or manual) to obtain and process validated UTC Period Level Consumption Data from the Data Service via the DIP</li> <li>Controls to ensure all updates to Consumption Data are updated completely and accurately within your system.</li> </ul>	MHHS-BR-LD-007 MHHS-BR-LD-008 MHHS-BR-LD-009.1 MHHS-BR-LD-029	

# 5.3 Supplier Meter Registration Service<sup>3</sup>

### 5.3.1 Business Processes

Process Area	Questions	Guidance Points	MHHS Requirement	Participants Response
5.3.1.1 Change of Supplier In line with MHHSP- BP001	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.3.1.1 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC and REC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements. For example, will you perform further testing in</li> </ul>	MHHS-BR-RS-005 MHHS-BR-RS-006 MHHS-BR-RS-007 MHHS-BR-RS-008	

<sup>3</sup> KnownEquivalent role under the REC ais the Electricity Retail Data Service (ERDS)

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		your own UIT environment, and if so, what	
		will be the scope of this testing and who will be involved.	
		If there are no relevant additional changes to disclose for this business process, please write "N/A".	
	<ul> <li>b) What controls do you have in place to ensure the end-to-end process is carried out within MHHS defined timescales as outlined in the Operational Choreography and baselined in</li> </ul>	<ul> <li>For Question 5.3.1.1 B - Your response should include the following:</li> <li>How is your system configured to receive and process the change of supply pending notification?</li> </ul>	
	the relevant codes?	Once a COS pending notification has been received, how do you ensure that you publish the initial registration details for the MPAN to the Supplier?	
		What is your process to receive and process the COS secured notification from the CSS?	
		• Once a COS secured notification has been received, how do you ensure that the Change of Supplier event is pushed to the Supplier and LDSO providing the new Supplier and registration details?	
5.3.1.2 Appointments	a) Excluding the functional elements tested in PIT/SIT/QT.	For Question 5.3.1.2 A - Your response should include the following:	MHHS-BR-RS-009 MHHS-BR-RS-010
Appointments In line with MHHSP- BP002	what further changes have been made to your E2E business process? ( <i>e.g. to</i> <i>inputs, workflows, integrations,</i> <i>and downstream systems and</i>	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	MHHS-BR-RS-020 MHHS-BR-RS-024.1 MHHS-BR-RS-033.1 MHHS-BR-RS-048.1
	processes, even where DIP optionality has been exercised;		MHHS-BR-RS-052 MHHS-BR-RS-071

	this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes</li> </ul>
		to disclose for this business process, please write "N/A".
b)	What controls do you have in place to validate appointment requests for a proposed Metering Service and Data Service? (please note if this varies for on the day, retro or prospective appointments, as well as for related MPANs and import/export links)	For Question 5.3.1.2 B - Your response should include the following:         • Please outline the approach for obtaining and validating Supplier service appointment requests for a proposed metering service. This should include use of the validation rules set out in (MHHS-IF-031).         • How do you determine which path the proposed metering service will be processed on once accepted? Explain any how you determine each of the below processes to work.         1. "On the day" (Service Appointment start date = previous Service Appointment start date = Previous Service Appointment End Date +1 AND Service Appointment start date < processing

		<ul> <li>date AND Existing Supplier = Requesting Supplier</li> <li>3. "Prospective" (All other appointments)</li> <li>How do you ensure that upon a retrospective change of Metering Service appointment you re-publish a Registration service notification of De-appointment on the DIP?</li> </ul>		
	c) What controls do you have in place to ensure Appointment updates are sent to CSS in the correct order when multiple agents are being appointed at the same time?	<ul> <li>For Question 5.3.1.2 C - Your response should include the following:</li> <li>How will you ensure that when agents for multiple roles are being updated at the same time (e.g. Data Services and MOA), hence require separate messages from the Registration Services to CSS, that these messages are sent to CSS in the correct order?</li> </ul>		
5.3.1.3 New Connections In line with MHHSP- BP001	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to the E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.3.1.3 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> </ul>	MHHS-BR-RS-089 MHHS-BR-RS-091	

		<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
5.3.1.4 <b>Disconnections</b> In line with MHHSP- BP007	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.3.1.4 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-RS-097 MHHS-BR-RS-102 MHHS-BR-RS-102.1
	b) What controls do you have in place to ensure the status is set to de-energised and you send a de-energised notification for any MPANs where the energisation status is currently energised within a timely manner?	<ul> <li>For Question 5.3.1.4 B - Your response should include the following:</li> <li>How do you receive notification of disconnection from the LDSO? (please outline systems and communication methods)</li> </ul>	
	c) How do you ensure the reason for disconnection as noted in	For Question 5.3.1.4 C - Your response should include the following:	

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	the de-appointment notifications is accurate?	<ul> <li>Upon receipt of a registration de-activation from CSS you must send the de-appointment notification with a reason of disconnection for any active servers. How do you ensure that you validate the notification and then undertake this request? (please include any automation or any manual intervention required)</li> <li>Once part b has been completed you must update the status to de-energised and send a de-energised notification status is currently energised. How do you ensure this happens? (please include any automation required). This is in line with the timescales within MHHSP IF-008 and data should made available to other parties by 06:00 the next day (if received prior to 23:00) and by the second working day (if received</li> </ul>	
5.3.1.5 Change of Energisation Status	a) Excluding the functional elements tested in PIT/SIT/QT.	after 23:00). For Question 5.3.1.5 A - Your response should include the following:	MHHS-BR-RS-105 MHHS-BR-RS-106
In line with MHHSP- BP008	what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes, even where DIP optionality has been exercised; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your</li> </ul>	

	changes tested in own UIT environment)	BSC and REC Code Requirements, as above.		
		• If there are no relevant additional changes to disclose for this business process, please write "N/A".		
	b) What controls do you have in place to validate the change of energisation status notifications, and take appropriate action should validation fail?	<ul> <li>For Question 5.3.1.5 B - Your response should include the following:</li> <li>How do you ensure that validation of change of energisation status requests are undertaken and processed in 60 minutes as per the timescales in MHHS-IF-007?</li> <li>For any validation failures how do you ensure that you reject the energisation status change request, with the failure reason to the Metering Service?</li> </ul>		
		• For any valid requests how do you ensure that you update the Registration Service system and publish acceptance of the update on the DIP?		
5.3.1.6 Change of	a) Excluding the functional	For Question 5.3.1.6 A - Your response should	MHHS-BR-RS-123.1	
Connection	elements tested in PIT/SIT/QT.	include the following:	MHHS-BR-RS-124	
Type/Market	what further changes have	······································	MHHS-BR-RS-124.1	
Segment	been made to your E2E	A disclosure of changes to systems and	MHHS-BR-RS-124.2	
In line with MHHSP- BP011B	business process? (e.g. to inputs, workflows, integrations, and downstream systems and	processes which have not been tested as part of PIT/SIT/QT, as above.	MHHS-BR-RS-127	
	processes, even where DIP optionality has been exercised; this may be nothing). In the	Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.		
	case that changes have been made, how have you tested these updated E2E business process ( <i>e.g. E2E process</i>	How you will gain assurance that even with these additional changes, your wider end- to-end systems and processes will still enable you to operate in line with your		

	changes tested in own UIT environment)	<ul> <li>BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>		
	<ul> <li>b) What controls do you have in place to identify sites which are unmetered, and sites where there is no metering installed, to derive and update a segment type?</li> </ul>	<ul> <li>For Question 5.3.1.6 B - Your response should include the following:</li> <li>What controls will you have in place to ensure your systems and/or processes will be able to identify unmetered sites?</li> <li>If your systems and/or processes identify an incorrect market segment, how will you update this?</li> </ul>		
5.3.1.7 Meter Data Retriever (MDR) Appointment In line with MHHSP- BP003B	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? ( <i>e.g. to</i> <i>inputs, workflows, integrations,</i> <i>and downstream systems and</i> <i>processes, even where DIP</i> <i>optionality has been exercised;</i> <i>this may be nothing</i> ). In the case that changes have been made, how have you tested these updated E2E business process ( <i>e.g. E2E process</i> <i>changes tested in own UIT</i> <i>environment</i> )	<ul> <li>For Question 5.3.1.7 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-RS-078 MHHS-BR-RS-078.1 MHHS-BR-RS-078.2 MHHS-BR-RS-079 MHHS-BR-RS-080	

<ul> <li>CoA(MS)-RS-001</li> <li>Registration Service will not accept Legacy D flows for a given MPAN.</li> <li>Moreover, what controls will you have in place to ensure that you will remove MPANs from inclusion in the Legacy EES Extract upon successful completion of Forward Migration, indicated through the send of an IF-036.</li> <li>Additionally, as soon as an IF-003 is sent marking the completion of a Revrese Migration, what controls will you have in place to ensure you add those MPANs back into the Legacy EES Extract.</li> <li>Finally, what controls will you have In place to identify for incomplete Migrations and issue an IF-045 where a Supplier has only migrated either the MS or DS.</li> <li>CoA(MS)-RS-001</li> <li>CoA(MS)-RS-002</li> <li>MHHS-Migration- CoA(MS)-RS-008</li> <li>MHHS-Migration- CoA(MS)-RS-016</li> <li>MHHS-Migration- CoA(MS)-RS-019</li> <li>MHHS-RMigration- CoS-RS-003</li> <li>MHHS-RMigration- CoS-RS-004</li> <li>MHHS-RMigration- CoS-RS-004</li> <li>MHHS-RMigration- CoS-RS-005</li> <li>MHHS-RMigration- CoS-RS-008</li> <li>MHHS-RMigration- CoS-RS-008</li> </ul>
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MHHS-RMigration-	
CoA(MS)-RS-005	
MHHS-RMigration-	
CoA(MS)-RS-007	
MHHS-Migration-Can-	
RS-001	
MHHS-Migration-Can-	
RS-002	
MHHS-Migration-Can-	
RS-003	
MHHS-Migration-Can-	
RS-005	
MHHS-Migration-Mis-	
RS-002	
MHHS-Migration-Mis- RS-022	
110-022	

## 5.3.2 Data Management

Data Management	Questions	Guidance Points	MHHS requirements	Participant Responses
Area				

5.3.2.1 Registration Data	a) What controls do you have in- place to ensure that updates are captured within all relevant systems and aligned with the LDSO to support wider business processes? ( <i>this is relevant to:</i> <i>MPL Address, GSP Group ID,</i> <i>Metered Status, Domestic</i> <i>Premises Indicator, Energy</i> <i>Direction, Related MPAN,</i> <i>Import/Export links, DUoS Tariffs</i> )	<ul> <li>For Question 5.3.2.1 A - Your response should include the following:</li> <li>The chosen method(s) (automated or manual) to receive Registration Data from the Registration Service</li> <li>How records of Registration Data will be held within your system</li> <li>Controls in place to ensure updates to Registration Data are actioned appropriately and updated in your system in a timely manner.</li> <li>What methods do you use to ensure that all information is aligned with the LDSO?</li> <li>How do you investigate any discrepancies between data held by the Registration Service and the</li> </ul>	MHHS-BR-RS-034 MHHS-BR-RS-040 MHHS-BR-RS-043 MHHS-BR-RS-081 MHHS-BR-RS-082 MHHS-BR-RS-083 MHHS-BR-RS-084 MHHS-BR-RS-086 MHHS-BR-RS-086.1 MHHS-BR-RS-086.1 MHHS-BR-RS-088.1 MHHS-BR-RS-088.2 MHHS-BR-RS-088.3 MHHS-BR-RS-088.4 MHHS-BR-RS-088.5
5.3.2.2 CSS and DCC Updates	a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?	<ul> <li>LDSO?</li> <li>For Question 5.3.2.2 A - Your response should include the following:</li> <li>The chosen method(s) (automated or manual) to receive MDR updates from the Central Switching Service</li> <li>How records of MDR appointments will be held within your systems</li> <li>Controls in place to ensure updates to MDR Appointments are updated in your systems in a timely manner</li> <li>What methods do you use to ensure that all information is aligned with the LDSO?_How do you investigate any</li> </ul>	MHHS-BR-RS-078.1 MHHS-BR-RS-078.2 MHHS-BR-RS-079

	discrepancies between data held by the Registration Service and the LDSO?
<ul> <li>b) What controls do you have in place to identify when an update needs to be sent to CSS/DCC and obtain accurate information to populate the ERDS interface, and maintain a flag against the appointment records with the most recent CSS update outcome?</li> </ul>	<ul> <li>For Question 5.3.2.2 B - Your response should include the following:</li> <li>Controls in place to verify whether MDR appointment records in CSS are up to date, or whether an update needs to be sent.</li> <li>What notifications do you receive to identify a CSS update and how is the ERDS interface updated?</li> </ul>

## 5.4 Unmetered Supplies Operator

### 5.4.1 Business Processes

Business Process Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.4.1.1 Appointment and/or De- appointments In line with MHHSP- BP003	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>For Question 5.4.1.1 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC and REC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> </ul>	MHHS-BR-MS-001 MHHS-BR-MS-002 MHHS-BR-MS-003 MHHS-BR-MS-004 MHHS-BR-MS-005 MHHS-BR-MS-006 MHHS-BR-MS-007 MHHS-BR-MS-025 MHHS-BR-MS-026 MHHS-BR-MS-029 MHHS-BR-MS-030 MHHS-BR-MS-030.1	

	<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements. For example, will you perform further testing in your own UIT environment, and if so, what will be the scope of this testing and who will be involved.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>
b) How will you send the Submeter ID, Locations, Latitude/longitude informat and PECU Arrays locations	
c) How do you receive the notification from the Registration Service and a supporting information confirming the UMSO appointment or de- appointment?	For Question 5.4.1.1 C – The response should address the following areas:         ny         • The process and/or systems used to receive a new UMSO appointment and MPAN details from the Registration Service, and how these records are maintained within your system.         • If there are any changes between your appointment and de-appointment, please detail where this is differs.

5.4.1.2	a) Excluding the functional	For Question 5.4.1.2 A - Your response	MHHS-BR-MS-038	
Disconnections	elements tested in PIT/SIT/QT, what further	should include the following:	MHHS-BR-MS-040	
In line with MHHSP- BP007	changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstrear systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will</li> </ul>		
	b) How do you receive notification of a disconnection request and what automated or manual interactions are required to process the notification?	chould address the following areas.		
		Upon receipt of the disconnection request, any user/manual interactions required to trigger a		

	c)	How do you request the LDSO to carry out the disconnection once the Supply Point has been de- energised and the inventory updated?	<ul> <li>request to the LDSO to carry out disconnection</li> <li>For Question 5.4.1.2 C – The response should address the following areas:</li> <li>Processes/system controls in place to ensure disconnection requests are only sent to the LDSO following de-energisation of the Supply point and updates to inventory.</li> </ul>	-	
5.4.1.3 Change of Energisation Status In line with MHHSP- BP008	a)	Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to the E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.4.1.3 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-MS-036 MHHS-BR-MS-037 MHHS-BR-MS-041 MHHS-BR-MS-042 MHHS-BR-MS-042.1 MHHS-BR-MS-042 MHHS-BR-MS-048 MHHS-BR-MS-049 MHHS-BR-MS-050	
	b)	How do you receive a request for a change of energisation	For Question 5.4.1.3 B – The response should address the following areas:		

	status from a customer (or via this Supplier) and how do you validate it is correct?	An outline of how your system/processes are configured to receive and process requests for a change of energisation status from the Supplier, LDSO or customers, including if this process differs from different requestors. Please refer receipt of the IF-007 and triggering the IF-008 flow in your response.
	c) What actions are taken upon receipt of a request to the change of energisation status?	<ul> <li>For Question 5.4.1.3 C – The response should address the following areas:</li> <li>Upon receipt of a request to change energisation status any user/manual interactions required to complete the change.</li> <li>The process in place to update the Unmetered Supplies Inventory in line with the energisation change, as set out in the UMSO Method Statement.</li> <li>Once the change has been actioned, any process in place to finalise and confirm the change is complete to the requestor with the correct effective from date.</li> </ul>
5.4.1.4 New Connections In line with MHHSP- BP001	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested	For Question 5.4.1.4 A – Your response should include the following:       MHHS-BR-MS-033         • A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.       MHHS-BR-MS-033         • Any instances where you have opted out of receiving DIP Publications, and how you will       Publications

	these updated E2E business process (e.g. E2E process changes tested in own UIT	ensure you will receive this information.		
	environment)	<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> </ul>		
		<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>		
	<ul> <li>b) How do you request the LDSO to set up an MPAN in Central Switching Service (CSS) for a new connection?</li> </ul>	<ul> <li>For Question 5.4.1.4 B – The response should address the following areas:</li> <li>An outline of how requests to the LDSO to set up an MPAN in CSS for a New Connection are sent.</li> </ul>		
		<ul> <li>Validation checks in place to ensure any information sent to the LDSO regarding the new MPAN is complete and accurate.</li> </ul>		
	c) How do you verify that an unmetered supply new connection request is appropriate?	<ul> <li>For Question 5.4.1.4 C – The response should address the following areas:</li> <li>Validation checks in place to ensure any information relating to a New Connection for an unmetered supply is valid and complete.</li> </ul>		
5.4.1.5 Fault Resolution	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to	<ul> <li>For Question 5.4.1.5 A – Your response should include the following:</li> <li>A disclosure of changes to systems</li> </ul>	MHHS-BR-MS-080	
	your E2E business process?	and processes which have not been		

	(e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
b)	How do you receive fault notifications from the Unmetered Supplies Data Service (UMSDS)?	changes to disclose for this business	
c)	What actions are taken when fault notifications are received?	<ul> <li>automation or manual interaction.</li> <li>For Question 5.4.1.5 C – The response should address the following areas:</li> <li>The process to ensure faults are rectified in a timely manner.</li> </ul>	
d)	How are faults monitored and tracked?	<ul> <li>For Question 5.4.1.5 D – The response should address the following areas:</li> <li>Processes in place to track faults through to resolution, including processes to inform the UMSDS when resolution may be delayed.</li> </ul>	

5.4.1.6 Migration Requirements	a)	How will you coordinate with the Supplier during the migration of an Unmetered site, ensuring seamless communication outside of any messages or interfaces?	<ul> <li>For Question 5.4.1.6 A – Your response should include the following:</li> <li>Supplier should communicate directly with both the new and outgoing Agents to plan the MPAN transfer. This coordination should happen independently of market messaging or interfaces to ensure a smooth transition and alignment of responsibilities for meter migration.</li> </ul>	MHHS-Migration- UNM-MS-001	
5.4.1.7 Operational Requirements	a)	What controls do you have in place to ensure that you meet all of your requirements as outlined in the Operational Choreography?	<ul> <li>For Question 5.4.1.7 A – Your response should include the following:</li> <li>Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention. How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)</li> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing, such as OPC_320A to make data available to other parties (as applicable) by 06:00hrs the next Working Day after receiving a notification of disconnection.?</li> </ul>	OPC_150           OPC_175           OPC_200           OPC_210_OPC_300           OPC_320           OPC_320A           OPC_320B           OPC_340           OPC_550	

## 5.4.2 Data Management

Data Management Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.4.2.1 Unmetered Supplies Inventory In line with MHHSP- BP004	<ul> <li>a) What controls do you have inplace to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> <li>b) How do you receive, validate and store new inventory information?</li> <li>c) How will you investigate any rejections?</li> <li>d) How do you receive and maintain valid Charge Codes, Switch Regimes and combinations thereof?</li> </ul>	<ul> <li>For Question 5.4.2.1 A – The response should address the following areas:</li> <li>Processes and/or systems used to receive and maintain records of customer inventories.</li> <li>For Question 5.4.2.1 B – The response should address the following areas:</li> <li>The method of providing the customer UMS inventories to the UMSDS, in line with the UMSO Method statement</li> <li>For Question 5.4.2.1 C – The response should address the following areas:</li> <li>The process for investigating any discrepancies and/or rejections in consultation with the customer as required</li> <li>For Question 5.4.2.1 D – The response should address the following areas:</li> <li>The processes for receiving and maintaining valid Charge</li> </ul>	MHHS-BR-MS-031 MHHS-BR-MS-032	

		<ul> <li>Codes, Switch Regimes and Combination.</li> <li>Processes to ensure the combinations are valid.</li> </ul>		
5.4.2.2 Registration Data	<ul> <li>a) What controls do you have in- place to ensure that updates are captured within all relevant systems to support wider business processes?</li> </ul>	<ul> <li>For Question 5.4.2.2 A - Your response should include the following:</li> <li>The chosen method(s) (automated or manual) to receive Registration Data</li> <li>How records of Registration Data will be held within your system?</li> <li>Controls in place to ensure updates to Registration Data are actioned appropriately and updated in your system in a timely manner.</li> <li>What methods do you use to ensure that all information is aligned?</li> <li>How do you investigate any discrepancies between data held?</li> </ul>	MHHS-BR-MS-064 MHHS-BR-MS-065 MHHS-BR-MS-066.2 MHHS-BR-MS-066.3 MHHS-BR-MS-066.5 MHHS-BR-MS-066.6	

### 5.5 Advanced Data Services

#### 5.5.1 Business Processes

Advanced Data Services must be Qualified as a Data Service in line with the Qualification Process and associated BSCPs.

Business Process Area	Questions	Guidance Points	MHHS requirements	Participant Responses	Formatted Table
5.5.1.1 Appointments/De- Appointments In line with MHHSP- BP002 & MHHSP- BP003	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.5.1.1 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC Codes. Additionally, this may be becaus e you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> </ul>	MHHS-BR-DS-003 MHHS-BR-DS-005 MHHS-BR-DS-009 MHHS-BR-DS-022 MHHS-BR-DS-026.3 MHHS-BR-DS-026.4 MHHS-BR-DS-026.6 MHHS-BR-DS-026.7 MHHS-BR-DS-104 MHHS-BR-DS-108		

		<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSCCode Requirements. For example, will you perform further testing in your own UIT environment, and if so, what will be the scope of this testing and who will be involved.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
b)	For advanced meters how will you collect the opening UTC period level data?	<ul> <li>For Question 5.5.1.1 B – Your response should include the following:</li> <li>The process for deleting any metering details received where</li> </ul>	
		<ul> <li>a proposed appointment has been rejected</li> <li>Where an appointment has been accepted, how you will attempt to collect the UTC period level data from an advanced meter. Including, where remote access has not</li> </ul>	
c)	Once de-appointed how will you collect the closing UTC period level data?	been possible. For Question 5.5.1.1 C – Your response should include the following:	

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		<ul> <li>Once de-appointed, how you will collect the closing UTC period level data to use for final data processing. Including where remote or local access has not been possible.</li> <li>The process for storing valid register reads for use in the estimation process where no better data is available.</li> </ul>		
	<ul> <li>d) How do you receive the notification from the Registration Service and any supporting information confirming the ADS appointment?</li> </ul>	<ul> <li>For Question 5.5.1.1 D - Your response should address the following:</li> <li>The process and/or systems used to receive a new ADS appointment and MPAN details from the Registration Service, and how these records are maintained within your system.</li> </ul>		
	e) What arrangements have you made for notifying third party service providers, and how will the mechanism for this notification be established?	<ul> <li>For Question 5.5.1.1 E - Your response should address the following:</li> <li>Where you have any third party service providers in place, what is the mechanism in which you are notifying them in line with the Appointment and/or deappointment process?</li> </ul>		
5.5.1.2 Identifying Faults	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? ( <i>e.g. to inputs</i> ,	For Question 5.5.1.2 A – Your response should address the following:	MHHS-BR-DS-147	

	workflows, integrations, and	<ul> <li>A disclosure of changes to</li> </ul>	
	downstream systems and	systems and processes which	
	processes; this may be	have not been tested as part of	
	<i>nothing</i> ). In the case that	PIT/SIT/QT, as above.	
	changes have been made, how		
	have you tested these updated	Any instances where you have	
	E2E business process ( <i>e.g.</i>	opted out of receiving DIP	
		Publications, and how you will	
	E2E process changes tested in	ensure you will receive this	
	own UIT environment)	information.	
		How you will gain assurance	
		that even with these additional	
		changes, your wider end-to-end	
		systems and processes will still	
		enable you to operate in line	
		with your BSC Code	
		Requirements, as above.	
		If there are no relevant	
		additional changes to disclose	
		for this business process,	
		please write "N/A".	
		please write IN/A.	
	b) The Advanced Data Service	For Question 5.5.1.2 B – Your	
	(ADS) needs to identify any	response should address the	
	faulty metering equipment and	following:	
	notify the Advanced Metering		
	Service and the Supplier. What	<ul> <li>How you will send the</li> </ul>	
	is your process for this?	notification (either in a	
		system/portal or otherwise e.g.	
		email) to the Supplier and	
		Advanced Metering Service	
		when there is a fault with the	
		metering equipment	
		<b>3</b>	
		<ul> <li>The process for investigating</li> </ul>	
		faults in a timely manner once	
		notification has been received	
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		<ul> <li>How feedback of faults, (including progress of resolution and any delays encountered) will be provided to the Supplier upon investigation</li> <li>How faults will be tracked and monitored internally. This may include a fault log or fault report that contains details of any past and present faults.</li> </ul>		
5.5.1.3 Metering	a) How do you identify related MPANs or Import/Export linked meters?	For Question 5.5.1.3 A – Your response should include the following: • The process for identifying: • Related MPANs • Import/Export linked meters	MHHS-BR-DS-045 MHHS-BR-DS-117 MHHS-BR-DS-119 MHHS-BR-DS-123 MHHS-BR-DS-134 MHHS-BR-DS-146 MHHS-BR-DS-148 MHHS-BR-DS-148.1	
	b) How do you receive/maintain all relevant Meter Technical Details?	<ul> <li>For Question 5.5.1.3 B – Your response should include the following:</li> <li>How you ensure all MTDs have been received for both Related or Import/Export group MPANs</li> <li>The process for maintaining records of all MTDs, and where required, investigating any discrepancies with data received from the Registration Service</li> <li>How you have ensured you have up to date metering details</li> </ul>		

		investigate any discrepancies that may exist where required	
c)	For Metering Systems where you retrieve data from the Metering System, how have you demonstrated that your data retrieval systems (including Hand Held Units and any third party systems) are appropriate to communicate with Metering Equipment in accordance with BSCP601?	<ul> <li>For Question 5.5.1.3 C – In your response:</li> <li>Please confirm that Protocol Approval for a Meter or Asset Meter Types has been achieved or where not, that the Elexon Metering Team have been contacted to apply for Protocol Approval.</li> </ul>	
d)	For Metering Systems that require proving tests what controls do you have in place to ensure that proving tests are performed in all the circumstances and timescales?	<ul> <li>For Question 5.5.1.3 D – In your response:</li> <li>The ADS agent is required to perform Proving Tests at the request of the SVA Meter Operator Agent. BSCP702 3.5 specifies the procedures to be used for different proving methods. BSCP702 Appendix 4.6 for SVA Metering Systems sets out, the circumstances in which a proving test will be required.</li> </ul>	
e)	How are the controls and processes implemented to ensure the aspects of Shared SVA Meter Arrangements?	<ul> <li>For Question 5.5.1.3 E – In your response:</li> <li>Ensure accurate notification and recording of Primary and Secondary Supplier details along with their associated MSIDs. Confirm consistent SMRA registration details for each Shared SVA Meter</li> </ul>	

5.5.1.4 Operational Requirements	<ul> <li>a) What controls do you have in place to ensure that you meet</li> </ul>	<ul> <li>arrangement, appointing only one MOA and one Data Service.</li> <li>Maintain timely and accurate transfer of split Meter data allocations between each MSID to the appropriate LDSOs.</li> <li>For Question 5.5.1.4 A - Your response should include the</li> </ul>	OPC 061 OPC 150
	all of your requirements as outlined in the Operational Choreography Version 5.4	<ul> <li>Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention. How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)</li> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing, such as OPC_320A to make data available to other parties (ac applicable) by 06:00hrs the next Working Day after receiving a notification of disconnection??</li> </ul>	OPC_130         OPC_170B         OPC_200         OPC_210         OPC_2200         OPC_280         OPC_300         OPC_320B         OPC_420         OPC_420         OPC_440         OPC_420         OPC_4300         OPC_550         OPC 550         OPC_580

5.5.1.5 Change of	a) Excluding the functional	For Question 5.5.1.5 A – Your	MHHS-BR-DS-106	
Energisation	elements tested in PIT/SIT/QT,	response should address the	MHHS-BR-DS-108	
	what further changes have beer made to your E2E business	following:	MHHS-BR-DS-116	
	process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> </ul>		
		<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose</li> </ul>		
		for this business process, please write "N/A".	_	
	<ul> <li>b) What steps do you follow to obtain and maintain records of Registration Service Notification of Change of Energisation</li> </ul>			
	Status updates via the DIP?	When receiving the Registration Service Notification of Change of Energisation, what controls do you have in place to ensure that you keep and maintain a record of these notifications?		

	c) How do you ensure you have accurately estimated meter readings when no valid readings are received from the Metering Service within 5 working days of a change in Energisation Status?	<ul> <li>For Question 5.5.1.5 C – In your response:</li> <li>How will you generate an estimated reading where no reads are provided alongside a change in Energisation Status, and how you will ensure this is completed within the 5 working day SLA?</li> </ul>				
	<ul> <li>d) How do you handle previously submitted UTC Period Level Consumption Data in settlements, upon notification of an energisation status change with no recorded consumption, especially when this change is retrospective?</li> </ul>	<ul> <li>For Question 5.5.1.5 D – In your response:</li> <li>Processes for when a Change of Energisation notification has been received for a backdated date when there has been no recorded consumption.</li> </ul>				
5.5.1.6 Migration	a) What controls do you have in-	For Question 5.8.1.5 A – Your	MHHS-Migration-	-	-	Formatted: Font: Bold
<u>Requirements</u>	place to ensure you meet the specific appointment? and meter technical details requirements during a migration?	response should include the following: What controls will you have in place to ensure MTD accuracy for migration. For example, during a reverse migration how will you ensure that you continue to monitor and meet your SLAs regarding sharing	CoA(DS)-DS-001 MHHS-Migration- CoA(DS)-DS-002 MHHS-Migration- CoA(DS)-DS-003 MHHS-Migration-Can- DS-001 MHHS-Migration-Can- DS-002	4		Formatted: 1011: bold         Formatted: List Paragraph, Numbered + Level: 1 +         Numbering Style: a, b, c, + Start at: 1 + Alignment:         Left + Aligned at: 0 cm + Indent at: 0.63 cm         Formatted: List Paragraph, Bulleted + Level: 1 +         Aligned at: 0 cm + Indent at: 0.63 cm
		meter technical details.	MHHS-Migration-Mis-			Parman de L'at Dans annuls
		Additionally, when you identify that meter technical details change after these have already been sent to the incoming meter service as part of a migration, how will you ensure you send	DS-001 MHHS-Migration-Mis- DS-002 MHHS-Migration-Mis- DS-003			Formatted: List Paragraph Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0 cm + Indent at: 0.63 cm

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the updated meter technical	MHHS-Migration-Mis-
details	<u>DS-004</u>
	MHHS-Migration-Mis-
	<u>DS-005</u>
	MHHS-Migration-Mis-
	<u>DS-006</u>

## 5.5.2 Data Management

Data Management	Questions	Guidance Points	MHHS requirements	Participant Responses
Area				
5.5.2.1 Consumption Data	<ul> <li>a) What controls do you have inplace to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.5.2.1 A – Your response should address the following:</li> <li>When updates are received what automated and manual processes are in place to update the system in line with business processes.</li> </ul>	MHHS-BR-DS-072 MHHS-BR-DS-074 MHHS-BR-DS-076 MHHS-BR-DS-082 MHHS-BR-DS-083 MHHS-BR-DS-086 MHHS-BR-DS-088 MHHS-BR-DS-091 MHHS-BR-DS-160 MHHS-BR-DS-166	
	b) How have you integrated the Advanced Validation & Estimation Method statement into your estimation procedures?	<ul> <li>For Question 5.5.2.1 B – Your response should address the following activities, which should be completed in line with the Advanced Validation and Estimation Method statement:</li> <li>There are several steps required in the Advance Validation &amp; Estimation Method statement. How have these been incorporated into normal business processes?</li> </ul>		
	c) When a new load shape is available how will you reprocess the previously submitted data?	<ul> <li>For Question 5.5.2.1 C –Your response should address the following:</li> <li>As outlined in the Advanced Validation &amp; Estimation Method, please describe your process for handling Load Shape Data, including how you receive this information and the procedures</li> </ul>		

Г	1			1	1
			you follow to reprocess previously submitted data in exceptional circumstances.		
	d)	How do you ensure you accurately obtain and maintain records of Override Reads sent by the Supplier via the DIP?	<ul> <li>For Question 5.5.2.1 D –Your response should address the following:</li> <li>Process to include obtaining overriding reads and maintaining overriding reads which has been sent by the Supplier.</li> </ul>		
	e)	What are the necessary steps for you to publish a Consumption Amendment rejection on the Data Integration Platform when validation fails?	<ul> <li>For Question 5.5.2.1 E –Your response should address the following:</li> <li>Processes to including details of the appropriate interfaces and specifying the types of rejection reasons that should be communicated</li> </ul>		
5.5.2.2 Meter Technical Details (MTDs) Please note it is not required as part of your response to outline minor changes in the use of the DTN e.g. to	a)	What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?	<ul> <li>For Question 5.5.2.2 A – Your response should address the following:</li> <li>When updates are received what automated and manual processes are in place to update the system in line with business processes.</li> </ul>	MHHS-BR-DS-005 MHHS-BR-DS-006.1	
the DTN e.g. to update the new role codes.	b)	How do you receive MTDs through different sources e.g. DTN and DIP?	For Question 5.5.2.2 B – Your response should address the following:		

		Aside from the DIP and DTN do you have arrangements with Metering Services to receive MTDs in a different way?		
	<ul> <li>c) How do you investigate discrepancies when MTDs are received from the DIP?</li> </ul>	For Question 5.5.2.2 C – Your response should address the following:		
		• The process for investigating any discrepancies against data received DIP, who is contacted, how are they contacted and what automated and manual steps are involved?		
	<ul> <li>d) How will you process MTDs received from a metering service which does not turn out to be the metering service appointed?</li> </ul>	<ul> <li>For Question 5.5.2.2 D - Your response should address the following:</li> <li>Where details are received from a prospective incoming Metering Service that is not appointed when the Data Service appointment commences, the process for ensuring these details are correct, or that further, revised MTDs have been received from the correct Metering Service appointed</li> </ul>		
5.5.2.3 Meter Readings	a) How will you validate any meter readings received?	<ul> <li>For Question 5.5.2.3 A – Your response should address the following:</li> <li>When meter readings are received from site visits or customer-provided readings, how are they validated? Please outline</li> </ul>	MHHS-BR-DS-049 MHHS-BR-DS-098 MHHS-BR-DS-098.1 MHHS-BR-DS-111	

	b) How do you ensure that your obtained cumulative reads via the DIP are stored and used in the estimation process?	<ul> <li>if there are any differences between the two methods.</li> <li>For Question 5.5.2.3 B – Your response should address the following:</li> <li>Processes and/or controls of previously obtained actual readings used to estimate reads</li> </ul>		
	c) When the meter is unable to be read what process and follow up action do you take?	<ul> <li>For Question 5.5.2.3 C – Your response should address the following:</li> <li>Processes to investigate where meter reads cannot be obtained.</li> </ul>		
5.5.2.4 Customer Direct Contract	a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?	<ul> <li>For Question 5.5.2.4 A – Your response should include the following:</li> <li>Controls in place to ensure that any appointments and updates to Customer Direct Contracts are reflected in the Registration Services.</li> <li>Controls in place to identify when Customer Direct Contracts need to be removed, and how you will ensure these are published in a timely manner.</li> </ul>	MHHS-BR-DS-031 MHHS-BR-DS-032 MHHS-BR-DS-033 MHHS-BR-DS-034 MHHS-BR-DS-035 MHHS-BR-DS-036 MHHS-BR-DS-037	

## 5.6 Smart Data Services (SDS)

#### 5.6.1 Business Processes

Business Process Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.6.1.1 Meter Data Retriever (MDR)	<ul> <li>a) Are you intending on undertaking User Entry Process (UEP) for MDR as defined in Section H1 of the Smart Energy Code (SEC)?</li> <li>If not, what controls have you got in place to ensure you have a Qualified MDR for all Data Communications Company (DCC) enrolled meters as defined in SEC?</li> </ul>	If you intend to qualify as an MDR, please state this and include details if you will operate solely as an internal MDR, or if you will provide these services externally.	MHHS-BR-DS-010 MHHS-BR-DS-011.1 MHHS-BR-DS-009 MHHS-BR-DS-019 MHHS-BR-DS-041 MHHS-BR-DS-043 MHHS-BR-DS-130 MHHS-BR-DS-132 MHHS-BR-DS-136	
	b) What controls have you got in place to ensure that you are able to communicate with an MDR (which could be the Supplier)?	<ul> <li>If you do not plan to qualify as an MDR, please include:</li> <li>The process for ensuring there is a qualified MDR (which could be the Supplier) in place for all DCC enrolled meters</li> <li>The chosen communication methods between the SDS and an MDR (which could be be the Supplier).</li> </ul>		
	c) What processes do you have in place to ensure that you can carry out, when required, a change of MDR?	<ul> <li>For Question 5.6.1.1 C – Your response should include the following:</li> <li>Where a Change of MDR is needed, what are your processes and controls to ensure that this is carried out correctly.</li> </ul>		

	d)	If applicable, how will you notify/terminate third party service providers, such as the Meter Reading Service and Meter Data Retrieval Service, according to the agreed bilateral mechanism?	<ul> <li>For Question 5.6.1.1 D – Your response should include the following:</li> <li>This could include methods like email, API calls, or secure FTP. The notification should contain relevant data (e.g., meter readings) in the agreed format.</li> </ul>		
	e)	Can you explain how you, your MDR or supplier collecting data for you will manage smart meter data request rejections via the DCC?	<ul> <li>For Question 5.6.1.1 E – Your response should include the following:</li> <li>Processes on how you will manage rejections including rejection reasons, initial responses, any diagnostic procedures, rectifying any issues, escalation processes and reporting and any preventive measures.</li> </ul>		
5.6.1.2 Appointment and/or De- Appointment	a)	Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.6.1.2 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> </ul>	MHHS-BR-DS-008.1 MHHS-BR-DS-023.1 MHHS-BR-DS-022 MHHS-BR-DS-024 MHHS-BR-DS-104	

	Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.
	How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSCCode Requirements. For example, will you perform further testing in your own UIT environment, and if so, what will be the scope of this testing and who will be involved.
	<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>
b) On de-appointment absence of an actu traditional meter, ho ensure you send ar read in line with the requirement?	I read for a should include the following:
	Once de-appointed and in the absence of an actual valid read, the process to send an estimated read to the new SDS, LDSO and old Supplier for midnight on the day following de- appointment
c) For smart meters h ensure you send th cumulative reading available, the regist	opening should include the following: and, where

		<ul> <li>For Advanced and Smart meters, the process of obtaining actual consumption history up to the point of de-appointment for submission to settlements</li> <li>The process for downloading, maintaining, and sending cumulative and register reads for Smart meters</li> </ul>		
5.6.1.3 Meter Readings	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>For Question 5.6.1.3 A – Your response should address the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-DS-046 MHHS-BR-DS-047 MHHS-BR-DS-048 MHHS-BR-DS-045 MHHS-BR-DS-053 MHHS-BR-DS-098 MHHS-BR-DS-098.1 MHHS-BR-DS-111 MHHS-BR-DS-160	
	b) What third party involvement (if any) is involved in the collection process?	<ul> <li>For Question 5.6.1.3 B – Your response should include the following:</li> <li>If you plan to utilise third parties for collecting meter reads, how will</li> </ul>		

	c) When the meter is unable to be read what process and follow up action do you take?	<ul> <li>responsibilities be split between the SDS and third party.</li> <li>How you will manage, schedule, and arrange site visits for Traditional Meters to enable submission of consumption data for settlement.</li> <li>For Question 5.6.1.3 C – Your response should include the following:</li> <li>Processes to investigate where meter reads cannot be obtained, and where this process differs with Smart meters (if any).</li> </ul>		
	<ul> <li>How does this process vary dependant on when the meter type is Smart, and it has been agreed with the Supplier to obtain an on-site read?</li> </ul>	<ul> <li>For Question 5.6.1.3 D – Your response should include the following:</li> <li>If data cannot be obtained, the process to create and publish best estimates as defined by the appropriate Method Statement within the 6 working day timeframe.</li> </ul>		
	e) How do you ensure they accurately obtain and maintain records of Override Reads sent by the Supplier via the DIP?	<ul> <li>For Question 5.6.1.3 E – Your response should include the following</li> <li>Processes to include obtaining overriding reads and maintaining overriding reads which has been sent by the Supplier.</li> </ul>		
5.6.1.4 Meter Technical Details (MTDs) Please note it is not required as part of your response to outline minor	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that</li> </ul>	<ul> <li>For Question 5.6.1.4 A - Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	MHHS-BR-DS-003 MHHS-BR-DS-006 MHHS-BR-DS-006.1 MHHS-BR-DS-016 MHHS-BR-DS-023.1 MHHS-BR-DS-121	

changes in the use of the DTN e.g. to update the new role codes.	changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
	b) How do you receive MTDs through different sources e.g. DTN and MDR/DIP?	<ul> <li>For Question 5.6.1.4 B - Your response should include the following:</li> <li>The method(s) used to receive and maintain records of MTDs for Traditional Meters</li> </ul>	
	c) How do you investigate discrepancies when MTDs are received from the DIP?	<ul> <li>For Question 5.6.1.4 C - Your response should include the following:</li> <li>Where Related MPANs or Import/Export linked meters exist, the process to ensure MTDs are received for all MPANs in the Related MPAN or Import/Export group</li> </ul>	
	<ul> <li>How will you process MTDs received from a metering service which does not turn out to be the metering service appointed?</li> </ul>	<ul> <li>For Question 5.6.1.4 D – Your response should include the following:</li> <li>The process for investigating any discrepancies against data received from the Registration Services</li> </ul>	

	e) How do you maintain your metering recording accurately	<ul> <li>For Question 5.6.1.4 E - Your response should include the following:</li> <li>Where details are received from a prospective incoming Metering Service that is not appointed when the Data Service appointment commences, the process for ensuring these details are correct, or that further, revised MTDs have been received from the correct Metering Service appointed.</li> </ul>		
5.6.1.5 Identify Faults	a) Excluding the functional elements tested in PIT/SIT/QT what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations and downstream systems and processes; this may be nothing). In the case that changes have been made, ho have you tested these update E2E business process (e.g. E2E process changes tested own UIT environment)	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive</li> </ul>	MHHS-BR-DS-147 MHHS-BR-DS-147.1	
	b) The SDS needs to identify an faulty metering equipment and			

	notify the Smart Metering Service and the Supplier. What is your process for this?	• Please describe your prescribed method as agreed with the Supplier to notify them of any faults, including how you will monitor faults and follow up with the Supplier if required.		
5.6.1.6 Change of Metering	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.6.1.6 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-DS-146 MHHS-BR-DS-121 MHHS-BR-DS-117 MHHS-BR-DS-123	
	b) How do you identify related MPANs or Import/Export linked meters?	For Question 5.6.1.6 B – Your response should include the following: • The process for identifying: • Related MPANs • Import/Export linked meters		

5.6.1.7 Operational Requirements	a) What controls do you have in place to ensure that you meet all of your requirements as outlined in the Operational Choreography Version 5. <u>5</u> 4?	<ul> <li>For Question 5.6 .1.7 A - Your response should include the following:</li> <li>Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention. How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)</li> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing2, such as OPC_320A to make data available to other parties (as applicable) by 06:00hrs the next Working Day after receiving a notification of disconnection.</li> </ul>	OPC 061           OPC_150           OPC_170A           OPC_170B           OPC_200           OPC_210           OPC_240           OPC_260           OPC_300           OPC_300           OPC_300           OPC_300           OPC_320A           OPC_320B           OPC_340           OPC_320B           OPC_370           OPC_420           OPC_420           OPC_420           OPC_420           OPC_420           OPC_420           OPC_420           OPC_430A           OPC_490           OPC 550           OPC 570           OPC 580           OPC 510
5.6.1.8 Change of Energisation	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? ( <i>e.g. to</i> <i>inputs, workflows, integrations,</i> <i>and downstream systems and</i> <i>processes; this may be</i>	<ul> <li>For Question 5.6.1.8 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	MHHS-BR-DS-106

c)	How do you ensure you have accurately estimated meter readings when no valid readings are received from the Metering Service within 5 working days of a change in Energisation Status?	<ul> <li>For Question 5.6.1.8 C – Your response should include the following:</li> <li>How you will generate an estimated reading where no reads are provided alongside a change in Energisation Status, and how you will ensure this is completed within the 5 working day SLA.</li> </ul>	
b)	What steps do you follow to obtain and maintain records of Registration Service Notification of Change of Energisation Status updates via the DIP?	<ul> <li>For Question 5.6.1.8 B – Your response should include the following:</li> <li>When receiving the Registration Service Notification of Change of Energisation, what controls do you have in place to ensure that you keep and maintain a record of these notifications?</li> </ul>	
	nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	

specific appointment? and meter technical details requirements during a       What controls will you have in moles to appure MTD accuracy       MHHS-Migration- CoA (DS)-002       Formatted: List Paragraph, Line spacing: Multip li, Numbered + Level: 1 + Numbering Style: a, b Start at: 1 + Alignment: Left + Aligned at: 0 cm	5.6.1.9 Migration	a) What controls do you have in-	For Question 5.8.1.5 A – Your response	MHHS-Migration-	 5	Formatted: Font: Bold	
migration?       for migration. For example, during a reverse migration. how will you ensure that you continue to monitor and meet your SLAs regarding sharing meter technical details.       CoA (DS)-DS-003 MHHS-Migration- Can-DS-001 MHHS-Migration- MHS-Migration- Mis-DS-002 MHHS-Migration- Mis-DS-001 MHHS-Migration- Mis-DS-001 MHHS-Migration- Mis-DS-002 MHHS-Migration- Mis-DS-002 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-003 MHHS-Migration- Mis-DS-005 MHHS-Migration- Mis-DS-005 MHHS-Migration- Mis-DS-005       Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm	Requirements	<u>meter technical details</u> requirements during a	<ul> <li>What controls will you have in place to ensure MTD accuracy for migration. For example, during a reverse migration how will you ensure that you continue to monitor and meet your SLAs regarding sharing meter technical details.</li> <li>Additionally, when you identify that meter technical details change after these have already been sent to the incoming meter service as part of a migration, how will you ensure you send the</li> </ul>	MHHS-Migration-         CoA (DS)-DS-002         MHHS-Migration-         CoA (DS)-DS-003         MHHS-Migration-         Can-DS-001         MHHS-Migration-         Can-DS-002         MHHS-Migration-         Mis-DS-001         MHHS-Migration-         Mis-DS-002         MHHS-Migration-         Mis-DS-002         MHHS-Migration-         Mis-DS-003         MHHS-Migration-         Mis-DS-004         MHHS-Migration-         Mis-DS-005		Formatted: List Paragraph, Line spacing: Multiple 1.0         li, Numbered + Level: 1 + Numbering Style: a, b, c,         Start at: 1 + Alignment: Left + Aligned at: 0 cm +         Indent at: 0.63 cm         Formatted: List Paragraph, Bulleted + Level: 1 +         Aligned at: 0.63 cm + Indent at: 1.27 cm         Formatted: List Paragraph         Formatted: List Paragraph         Formatted: List Paragraph         Formatted: List Paragraph	

# 5.6.2 Data Management

Data Management Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.6.24.19 Estimation Values Please note this question is not asking for an explanation as to how connection to the DIP is made and maintained.	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.6.<u>2</u>4.<u>19</u> A – Your response should include the following:</li> <li>Processes for validating UTC Period Level Consumption Data for a given submission, as well as any estimates.</li> </ul>	MHHS-BR-DS-073 MHHS-BR-DS-082 MHHS-BR-DS-084 MHHS-BR-DS-087 MHHS-BR-DS-089 MHHS-BR-DS-092 MHHS-BR-DS-109	
	<ul> <li>b) Please outline how you have integrated the Smart Validation &amp; Estimation Method Statement into your local working procedures. This should look to cover estimation for missing and/or invalid periods or re-estimating consumption.</li> <li>c) Please outline how the most appropriate method is selected from the SDS method statement.</li> </ul>	<ul> <li>For Question 5.6.2.1.1.9-B&amp;C - Your response should include the following:</li> <li>Processes for estimating consumption for any missing/invalid periods, as well processes to re-estimate consumption for any estimated UTC periods where further data becomes available to support a more accurate estimate to be submitted</li> <li>The process for storing valid register reads for use in the estimation process where no better data is available.</li> </ul>		
	d) When a new load shape is available how will you reprocess the previously submitted data?	For Question 5.6.2.1 D – Your response should include the following:		

		As outlined in the Smart V&E method statement & Estimation Method, please describe your process for handling Load Shape Data, including how you receive this information and the procedures you follow to reprocess previously submitted data		
	e) How do you ensure that your obtained cumulative reads via the DIP are stored and used in the estimation process?	For Question 5.6.2.1 E – Your response should include the following: Processes and/or controls of previously obtained actual readings used to estimate reads		
5.6. <u>2</u> 4. <u>2</u> 40. Customer Direct Contract	<ul> <li>a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.6.1.10. A – Your response should include the following:</li> <li>Controls in place to ensure that any appointments and updates to Customer Direct Contracts are reflected in the Registration Services.</li> <li>Controls in place to identify when Customer Direct Contracts need to be removed, and how you will ensure these are published in a timely manner.</li> </ul>	MHHS-BR-DS-031 MHHS-BR-DS-032 MHHS-BR-DS-033 MHHS-BR-DS-034 MHHS-BR-DS-035 MHHS-BR-DS-036 MHHS-BR-DS-037	

## 5.7 Unmetered Supplies Data Service (UMSDS)

Note: Prior to seeking Qualification as a UMSDS your Equivalent Meter needs to be approved via various committees, as outlined in BSCP700. The UMSDS must be Qualified to operate as a Data Service in line with the BSC Qualification Process.

### 5.7.1 Business Processes

Business Process	Questions	Guidance Points	MHHS	Participant Responses
Area			requirements	
5.7.1.1 Appointments and/or De- Appointments In line with MHHSP- BP002	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>For Question 5.7.1.1 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements. For example, will you perform further testing in your own UIT</li> </ul>	MHHS-BR-DS-002 MHHS-BR-DS-017	

	<ul> <li>b) How do you receive the notification from the Registration Service and any supporting information confirming the UMSO appointment?</li> <li>c) How do you obtain the information on submeters, location, latitude/longitude and Photocheckers</li> </ul>	<ul> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> <li>For Question 5.7.1.1 B – Your response should address the following:</li> <li>The process and/or systems used to receive a new UMSO appointment and MPAN details from the Registration Service, and how these records are maintained within your system</li> <li>For Question 5.7.1.1 C – Your response should address the following:</li> </ul>	-	
5.7.1.2 Data Collection	<ul> <li>Photoelectric Control Unit (PECU) Array details?</li> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further</li> </ul>	The agreed delivery method of MPAN details from the UMSO     For Question 5.7.1.2 A – Your response should	MHHS-BR-DS-061	
Conection	changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing).	<ul> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> </ul>	MHHS-BR-DS-062 MHHS-BR-DS-063 MHHS-BR-DS-064 MHHS-BR-DS-065 MHHS-BR-DS-066 MHHS-BR-DS-067	
	In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process	Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.	MHHS-BR-DS-067 MHHS-BR-DS-068 MHHS-BR-DS-069 MHHS-BR-DS-071	
	changes tested in own UIT environment)	How you will gain assurance that even with these additional changes, your wider end- to-end systems and processes will still		

	<ul> <li>enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
<ul> <li>b) How do you receive and validate D0388 unmetered supplies inventory from the UMSO?</li> </ul>	<ul> <li>For Question 5.7.1.2 B – Your response should address the following:</li> <li>The agreed method for receiving and validating D0388 flows from the UMSO</li> </ul>	
c) How do you send the D0389 UMS response following validation?	<ul> <li>For Question 5.7.1.2 C – Your response should address the following:</li> <li>The sending of the D0389 response flow following rejection, outlining whether each MPAN is accepted or rejected, and where rejected, the reason for rejection</li> </ul>	
<ul> <li>d) Upon being appointed how do you obtain and manage the provision of the PECU Arrays data and support delivery of consumption data?</li> </ul>	<ul> <li>For Question 5.7.1.2 D – Your response should address the following:</li> <li>The method for receiving and maintaining the provision of PECU arrays in line with the UMSDS Method Statement</li> </ul>	
<ul> <li>e) Upon being appointed how do you obtain details of the Central Management System (CMS) from the customer, UMSO or CMS provider?</li> </ul>	<ul> <li>For Question 5.7.1.2 E – Your response should address the following:</li> <li>How you will retrieve details of the Central Management System from the customer, UMSO and/or CMS provider (including whether this process differs between providers) and schedule contact to support delivery of UTC Period Level Consumption Data</li> </ul>	

	times and load information from the CMS?	<ul> <li>For Question 5.7.1.2 F – Your response should address the following:</li> <li>Your chosen method for obtaining and validating switching times and load information from CMS</li> </ul>		
Faults	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> <li>b) What is the process to receive fault notifications?</li> </ul>	<ul> <li>For Question 5.7.1.3 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>Any instances where you have opted out of receiving DIP Publications, and how you will ensure you will receive this information.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> <li>For Question 5.7.1.3 B – Your response should address the following:</li> <li>How you will receive notification (either in a system/portal or otherwise e.g. email) when</li> </ul>	MHHS-BR-DS- 147.2	

		• The UMSDS needs to investigate any faulty	
		metering equipment, identified, or notified to them.	
	c) What actions do you take to investigate faulty equipment?	For Question 5.7.1.3 C – Your response should address the following:	
		• The process for investigating faults in a timely manner once notification has been received.	
		• How feedback of faults, (including progress of resolution and any delays encountered) will be provided upon investigation.	
		• How faults will be tracked and monitored internally. This may include a fault log or fault report that contains details of any past and present faults.	
5.7.1.4 Operational Requirements	a) What controls do you have in place to ensure that you meet all of your requirements as outlined	For Question 5.7.1.4 A - Your response should include the following:	OPC_150 OPC_170A OPC_170B
	in the Operational Choreography?	Both preventative controls and detective controls, which could include your monitoring activities and processes for manual intervention. How you will ensure you meet specific processing and response SLAs (these may be referenced in your answers above)	OPC_190 OPC_200 OPC_210 OPC_240 OPC_260 OPC_280
		<ul> <li>How you will ensure you meet your operational requirements which may not have been tested during functional testing, such as OPC_320A to make data available to other parties (as applicable) by 06:00hrs the next Working Day after receiving a notification of disconnection?</li> </ul>	OPC_300 OPC_320A OPC_320B OPC_340 OPC_420 OPC_430A OPC_440 OPC_490

			OPC_510 MHHS-BR-DS-040		
5.7.1.5 6.1.9 Migration Requirements	a) What controls do you have in- place to ensure you meet the specific appointment and meter technical details requirements	<u>For Question 5.78.1.5 A – Your response</u> <u>should include the following:</u> • What controls will you have in place to	MHHS-Migration- UNM-DS-001		Formatted: List li, Numbered + I Start at: 1 + Alig Indent at: 0.63 d
	during a migration?	ensure MTD accuracy for migration. For			Formatted: Fon
		example, during a reverse migration how will you ensure that you continue to monitor and meet your SLAs regarding sharing meter technical			Formatted: List Aligned at: 0.63
		details.		e	Formatted: List
		Additionally, when you identify that <u>meter technical details change after</u> these have already been sent to the			Formatted: List Aligned at: 0.63
		incoming meter service as part of a migration, how will you ensure you send the updated meter technical details			

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# 5.7.2 Data Management

Data Management Area	Questions	Guidance Points	MHHS Requirements	Participant Responses
5.7.2.1 Data Processing	<ul> <li>a) What controls do you have in-place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.7.2.1 A –Your response should address the following:</li> <li>When updates are received, what automated and manual processes are in place to update the system in line with business processes.</li> </ul>	MHHS-BR-DS-078 MHHS-BR-DS-081 MHHS-BR-DS-085 MHHS-BR-DS-090	
	<ul> <li>b) When a new load shape is available how will you reprocess the previously submitted data?</li> </ul>	<ul> <li>For Question 5.7.2.1 B –Your response should address the following:</li> <li>The process to reprocess previously submitted data following the UMSDS Method Statement when a new load shape is made available.</li> </ul>		
	<ul> <li>c) How do you calculate consumption for all UTC periods?</li> </ul>	<ul> <li>For Question 5.7.2.1 C – Your response should address the following:</li> <li>Processes and/or systems used to calculate consumption for all UTC</li> </ul>		

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		periods, and methods used to check all calculations are complete and accurate		
	<ul> <li>d) How do you re-calculate consumption when better data becomes available?</li> </ul>	For Question 5.7.2.1 D – Your response should address the following:		
		Circumstances in which you may re- calculate consumption data, and how this re-calculation is performed		
5.7.2.2 Customer Direct Contract	<ul> <li>a) What controls do you have in-place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC obligations brought about by MHHS?</li> </ul>	<ul> <li>For Question 5.7.2.2 A – Your response should include the following:</li> <li>Controls in place to ensure that any appointments and updates to Customer Direct Contracts are reflected in the Registration Services.</li> <li>Controls in place to identify when Customer Direct Contracts need to be removed, and how you will ensure these are published in a timely manner</li> </ul>	MHHS-BR-DS-031 MHHS-BR-DS-032 MHHS-BR-DS-033 MHHS-BR-DS-034 MHHS-BR-DS-035 MHHS-BR-DS-036 MHHS-BR-DS-037	

## 5.8 Meter Operator Agent (MOA)

## 5.8.1 Business Process

Business Process Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.8.1.1 Metering Role	<ul> <li>a) Please confirm for which of the following segments you intend to operate in:</li> <li>Smart</li> <li>Advanced</li> <li>Smart and Advanced</li> </ul>	<ul> <li>For Question 5.8.1.1 A – Your response should include the following:</li> <li>Which MOA segment(s) you are applying to Qualify in, hence complete your testing for.</li> </ul>		
5.8.1.2 Appointments In line with MHHSP-BP002 and MHHSP- BP003	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>For Question 5.8.1.2 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT. This could be because, for example, you have made changes to upstream, downstream, and/or interfacing systems which have not been captured within the scope of the functional test scenarios and scripts but will form part of the wider business process requirements as defined in the BSC and REC Codes. Additionally, this may be because you are placing reliance on testing completed by other MHHS Participants for common systems, but the integration with your own end-to-end solution has not yet been tested.</li> </ul>	MHHS-BR-MS-001 MHHS-BR-MS-002 MHHS-BR-MS-003 MHHS-BR-MS-004 MHHS-BR-MS-005 MHHS-BR-MS-006 MHHS-BR-MS-006.1 MHHS-BR-MS-006.1 MHHS-BR-MS-008 MHHS-BR-MS-008.1 MHHS-BR-MS-009.1 MHHS-BR-MS-009.1 MHHS-BR-MS-009.1 MHHS-BR-MS-008.1 MHHS-BR-MS-086 MHHS-BR-MS-088 MHHS-BR-MS-088.1	

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	<ul> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements. For example, will you perform further testing in your own UIT environment, and if so, what will be the scope of this testing and who will be involved.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	
What controls do you have in place to ensure the end-to-end process is carried out within MHHS defined timescales as outlined in the Operational Choreography and baselined in the relevant codes?	<ul> <li>For Question 5.8.1.2 B – Your</li> <li>response should include the following:</li> <li>Controls to ensure Appointment Activities are carried out in line with MHHS defined timescales and messages are processed within 60 minutes of receipt, outlined in the operational choreography. This may include detective controls such as ongoing monitoring.</li> </ul>	
What controls do you have in place to identify auto de- appointments by the Registration Services?	<ul> <li>For Question 5.8.1.2 C – Your response should include the following:</li> <li>Controls in place to identify where you have been automatically deappointed as the MOA, for example where the change of meter segment process was not aligned with the appointment process.</li> <li>Controls to ensure that your own records are up-to-date to reflect</li> </ul>	

E 9.1.2 Change of	a) Evoluting the functional	<ul> <li>that you were automatically de- appointed.</li> <li>How you will work with the Supplier to resolve the issue.</li> </ul>		
5.8.1.3 Change of Energisation Status In line with MHHSP-BP008	<ul> <li>a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)</li> </ul>	<ul> <li>For Question 5.8.1.3 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-MS-041 MHHS-BR-MS-042 MHHS-BR-MS-042.1 MHHS-BR-MS-043 MHHS-BR-MS-044 MHHS-BR-MS-045 MHHS-BR-MS-045.1 MHHS-BR-MS-046 MHHS-BR-MS-046.1 MHHS-BR-MS-049 MHHS-BR-MS-050	
	<ul> <li>b) What controls do you have in place to ensure that for all aspects of the change of energisation process, that communication of relevant information is sent within the timescales set out in the REC. (this response should include the following areas: <ul> <li>a. Change of energisation status response (smart, advanced, and traditional)</li> </ul> </li> </ul>	<ul> <li>For Question 5.8.1.3 B – Your response should include the following:</li> <li>Controls to ensure change of energisation status updates from the LDSO are processed within 3 working days.</li> <li>Controls in place to ensure that you have captured the final Meter Register Readings and provided these to the Data Service before disposing of or re-using the meter.</li> <li>In the case that the change of energisation cannot be actioned,</li> </ul>		

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	<ul> <li>b. Capture and publish cumulative read</li> <li>c. When change of energisation cannot be actioned</li> <li>d. Investigating and re- submitting rejections)</li> </ul>	how this will be captured in your internal records, communicated to the Supplier, and how you will determine the next steps to resolve the issue.		
5.8.1.4 Change of Market Segment In line with MHHSP-BP011	a) Excluding the functional elements tested in PIT/SIT/QT, what further changes have been made to your E2E business process? (e.g. to inputs, workflows, integrations, and downstream systems and processes; this may be nothing). In the case that changes have been made, how have you tested these updated E2E business process (e.g. E2E process changes tested in own UIT environment)	<ul> <li>For Question 5.8.1.4 A – Your response should include the following:</li> <li>A disclosure of changes to systems and processes which have not been tested as part of PIT/SIT/QT, as above.</li> <li>How you will gain assurance that even with these additional changes, your wider end-to-end systems and processes will still enable you to operate in line with your BSC and REC Code Requirements, as above.</li> <li>If there are no relevant additional changes to disclose for this business process, please write "N/A".</li> </ul>	MHHS-BR-MS-092 MHHS-BR-MS-093 MHHS-BR-MS-094 MHHS-BR-MS-095 MHHS-BR-MS-096 MHHS-BR-MS-097 MHHS-BR-MS-097.1	
	<ul> <li>b) What controls do you have in place to ensure that you can carry out a change of segment meter exchange and publish details and reads where you are not formally appointed as the Metering Service but do have an accepted prospective appointment.</li> </ul>	<ul> <li>For Question 5.8.1.4 B – Your response should include the following:</li> <li>Controls do you have in place to ensure you have identified meters which you are not appointed to, but have accepted a prospective appointment.</li> <li>How your systems will reflect this status and enable related</li> </ul>		

		processes such as a change of segment meter exchange.	
5.8.1.5 Migration Requirements	<ul> <li>a) What controls do you have inplace to ensure you meet the specific appointment and meter technical details requirements during a migration?</li> </ul>	<ul> <li>For Question 5.8.1.5 A – Your response should include the following:</li> <li>What controls will you have in place to ensure MTD accuracy for migration. For example, during a reverse migration how will you ensure that you continue to monitor and meet your SLAs regarding sharing meter technical details.</li> <li>Additionally, when you identify that meter technical details change after these have already been sent to the incoming meter service as part of a migration, how will you ensure you send the updated meter technical details.</li> </ul>	MHHS-Migration- CoA(MS)-MOP-002 MHHS-Migration- CoA(MS)-MOP-004 MHHS-Migration- CoA(MS)-MOP-005 MHHS-Migration- CoA(MS)-MOP-006 MHHS-RMigration- CoA(MS)-MOP-001 MHHS-RMigration- CoA(MS)-MOP-002 MHHS-RMigration- Mis-MOP-001 MHHS-Migration- Mis-MOP-002 MHHS-Migration- Mis-MOP-006 MHHS-RMigration- CoA(MS)-MS-003 MHHS-Migration- Mis-MS-001 MHHS-Migration- Mis-MS-001 MHHS-Migration- Mis-MS-002 MHHS-Migration- Mis-MS-002 MHHS-Migration- Mis-MS-002 MHHS-Migration- Mis-MS-002 MHHS-Migration- Mis-MS-006

/ -			
5.8.1.6	<ul> <li>a) What controls do you have in</li> </ul>	For Question 5.8.1.6 A - Your	OPC_150
Operational	place to ensure that you meet	response should include the following:	OPC_170A
Requirements	all of your requirements as		OPC_170B
	outlined in the Operational	Both preventative controls and	OPC_190
	Choreography Version 5.4?	detective controls, which could	OPC_200
		include your monitoring activities	OPC_210
		and processes for manual	OPC_240
		intervention.	OPC_260
		How you will ensure you meet	OPC_280
		<ul> <li>How you will ensure you meet specific processing and response</li> </ul>	OPC_300
		SLAs (these may be referenced in	OPC_320A
		your answers above)	OPC_320B
		,	OPC_340
		How you will ensure you meet your	OPC_420
		operational requirements which	OPC_430A
		may not have been tested during	OPC_440
		functional testing, such as	OPC_490
		OPC_320A to make data available	OPC_510
		to other parties (as applicable) by 06:00hrs the next Working Day	
1		after receiving a notification of	
1		disconnection.	

## 5.8.2 Data Management

Data Management Area	Questions	Guidance Points	MHHS requirements	Participant Responses
5.8.2.1 Meter Technical Details (MTDs)	<ul> <li>a) What controls do you have inplace to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the REC obligations brought about by MHHS?</li> <li>b) What controls do you have in place to identify when you need to send Meter Technical Details during a Change of Supplier and/or MOA Appointment.</li> </ul>	<ul> <li>For Question 5.8.<u>2</u>1.<u>1</u><sup>7</sup> A – Your response should include the following:</li> <li>Where there have been updates to Meter Technical Details, any controls in place to ensure all records are maintained completely and accurately in relevant systems.</li> <li>For Question 5.8.<u>2</u>4.<u>1</u><sup>7</sup> B – Your response should include the following:</li> <li>Controls you have in place to capture when MTDs need to be sent, and how you will monitor these are sent within the timeframes outlined in the REC.</li> </ul>	MHHS-BR-MS-017 MHHS-BR-MS-018 MHHS-BR-MS-019 MHHS-BR-MS-020 MHHS-BR-MS-021 MHHS-BR-MS-022 MHHS-BR-MS-023 MHHS-BR-MS-023 MHHS-BR-MS-026 MHHS-BR-MS-026 MHHS-BR-MS-028 MHHS-BR-MS-030 MHHS-BR-MS-058 MHHS-BR-MS-062 MHHS-BR-MS-098 MHHS-BR-MS-099	
	c) What controls do you have in- place to ensure you identify where you need to send Meter Technical Details to a prospective Advanced Data Service, and for Traditional Meters to a prospective Smart Data Service.	<ul> <li>For Question 5.8.21.17 C – Your response should include the following:</li> <li>Controls you have in place to capture when MTDs need to be sent, and how you will monitor these are sent within the timeframes outlined in the REC.</li> </ul>		

	<ul> <li>d) How will you identify and investigate any discrepancies in Meter Technical Details received from the incumbent Metering Service and those received from the Registration Service?</li> </ul>	<ul> <li>For Question 5.8.<u>2</u>1.<u>1</u>7 D – Your response should include the following:</li> <li>Proactive controls to identify any discrepancies between MTDs received from incumbent MOA and those received from the Registration Service.</li> <li>Where discrepancies are identified, what business processes will you have in place to investigate and resolve the difference in a timely manner.</li> </ul>		
	<ul> <li>e) What controls do you have in place to identify missing Meter Technical Details following a MOA appointment to ensure you request these Meter Technical Details from the losing MOA.</li> </ul>	<ul> <li>For Question 5.8.24.17 E – Your response should include the following:</li> <li>Controls to validate the Meter Technical Details received on appointment are complete, and in the case that they are not complete, how you will ensure you request these details from the losing MOA in a timely manner.</li> </ul>		
5.8.2.2 Customer Direct Contracts	<ul> <li>a) What controls do you have in- place to ensure that the published Customer Direct Contract details are accurate and up to date.</li> </ul>	<ul> <li>For Question 5.8.<u>2</u>1.<u>2</u>8 A – Your response should include the following:</li> <li>Controls in place to ensure that you have in place to ensure that any appointments and updates to Customer Direct Contracts are reflected in the registration services.</li> </ul>	MHHS-BR-MS-010 MHHS-BR-MS-011 MHHS-BR-MS-012 MHHS-BR-MS-013 MHHS-BR-MS-014 MHHS-BR-MS-015 MHHS-BR-MS-016	

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		Controls in place to identify when Customer Direct Contracts need to be removed, and how you will ensure these are published in a timely manner.		
5.8.2.3 Registration Data	a) What controls do you have in- place to ensure that interface data updates are captured within the relevant systems to support wider business processes for in scope services in line with the BSC and REC obligations brought about by MHHS? (this is relevant to: MPL Address, Domestic Premises Indicator, Related MPAN, Energy Direction, Metered Status, SMSO details, Import/Export links, Profile Class / SSC details, Energisation Status, MAP)	<ul> <li>For Question 5.8.<u>2</u>1.<u>39</u> A – Your response should include the following:</li> <li>Where there have been updates to registration data, any controls in place to ensure all changes are captured and maintained accurately within relevant systems.</li> </ul>	MHHS-BR-MS-057 MHHS-BR-MS-058.2 MHHS-BR-MS-058.3 MHHS-BR-MS-065 MHHS-BR-MS-066 MHHS-BR-MS-066.1 MHHS-BR-MS-066.2 MHHS-BR-MS-066.3 MHHS-BR-MS-066.5 MHHS-BR-MS-066.6 MHHS-BR-MS-077	

5.8.2.4 Faults	a) What controls do you have in- place to ensure that faults are investigated and updates sent within the timescales set out in the REC?	<ul> <li>For Question 5.8.21.410 A – Your response should include the following:</li> <li>Controls in place to ensure you identify where you are required to investigate a fault, and that an appropriate work item is created.</li> <li>How you will ensure that you send the required Market Messages depending on the timeline and status of the investigation as per REC Schedule 14.</li> </ul>	MHHS-BR-MS-052 MHHS-BR-MS-078 MHHS-BR-MS-079	
5.8.2.5 Consumption Data and Cumulative Reads	a) What controls do you have in- place to ensure that you capture and send the latest Consumption Data and Cumulative Reads when needed	<ul> <li>For Question 5.8.21.514 A – Your response should include the following:</li> <li>Controls in place to ensure that you capture latest meter readings when on-site and that these maintained accordingly.</li> <li>Controls in place to ensure that you capture and provide Advanced and Smart Consumption Data in line with your bilateral service agreements with Suppliers.</li> </ul>	MHHS-BR-MS-054 MHHS-BR-MS-055 MHHS-BR-MS-061	

5.8.2.6 Meter	a) What controls do you have in-	For Question 5.8. <u>2</u> 1. <u>6</u> 12 - A – Your	MHHS-BR-MS-037.1	
Norks	a) What controls do you have in- place to ensure that once meter work is completed that updates are sent within the timescales set out in the REC?	<ul> <li>For Question 5.8.21.012 - A – Your response should include the following:</li> <li>Controls in place to ensure that you send the required Market Messages within the timescales identified in REC Schedule 14, including in areas such as:         <ul> <li>Meter change acceptances and rejections</li> <li>Completion of metering work (e.g. installation, removal, exchange)</li> <li>Notification of failure to install or energise metering system</li> <li>Proving tests</li> </ul> </li> </ul>	MHHS-BR-MS-037.1 MHHS-BR-MS-037.2 MHHS-BR-MS-051 MHHS-BR-MS-053 MHHS-BR-MS-056 MHHS-BR-MS-059 MHHS-BR-MS-060 MHHS-BR-MS-080.1	