



MHHS
PROGRAMME

Programme Steering Group #27

06 December 2023

Version 1.0

MHHS-DEL1958

Document Classification: Public

Agenda

#	Item	Objective	Type	Lead(s)	Time	Page
1	Welcome		-	Chair	10:00-10:05 5 mins	1
2	Minutes and Actions	Approve minutes and review actions	Decision	Chair & Secretariat	10:05-10:15 10 mins	3
3	CR035 Decision	PSG recommendation on approval of CR035	Decision	Programme (Immy Syms) & Chair	10:15-10:25 15 mins	6
4	Qualification Testing Updates	Updates on Qualification Testing: <ul style="list-style-type: none"> • Supplier and Agent • Non-SIT LDSO 	Information	Elexon (Victoria Moxham & Laura Kennedy) & Programme (Nicola Farley)	10:25-10:45 20 mins	15
5	Programme Reporting	Milestone reporting against the Programme Plan Test progress update	Information	Programme (Keith Clark & Adrian Page)	10:45-10:55 10 mins	23
6	Readiness Assessment 3	Overview of Readiness Assessment 3 next steps	Information	Programme (Francesca Drew)	10:55-11:05 10 mins	27
7	Change Management During Testing and Code Deployment	Information on management of design releases during testing and code deployment	Discussion	Programme (Paul Pettitt, Andrew Margan, Kaitlin Jones)	11:05-11:20 15 mins	29
8	Delivery Dashboards	Questions from PSG members on delivery dashboard content	Information	Chair	11:20-11:35 15 mins	34
9	Summary and Next Steps	Summarise actions and decisions, and look ahead to next meeting	Information	Chair & Secretariat	11:35-11:40 5 mins	65

Attachments

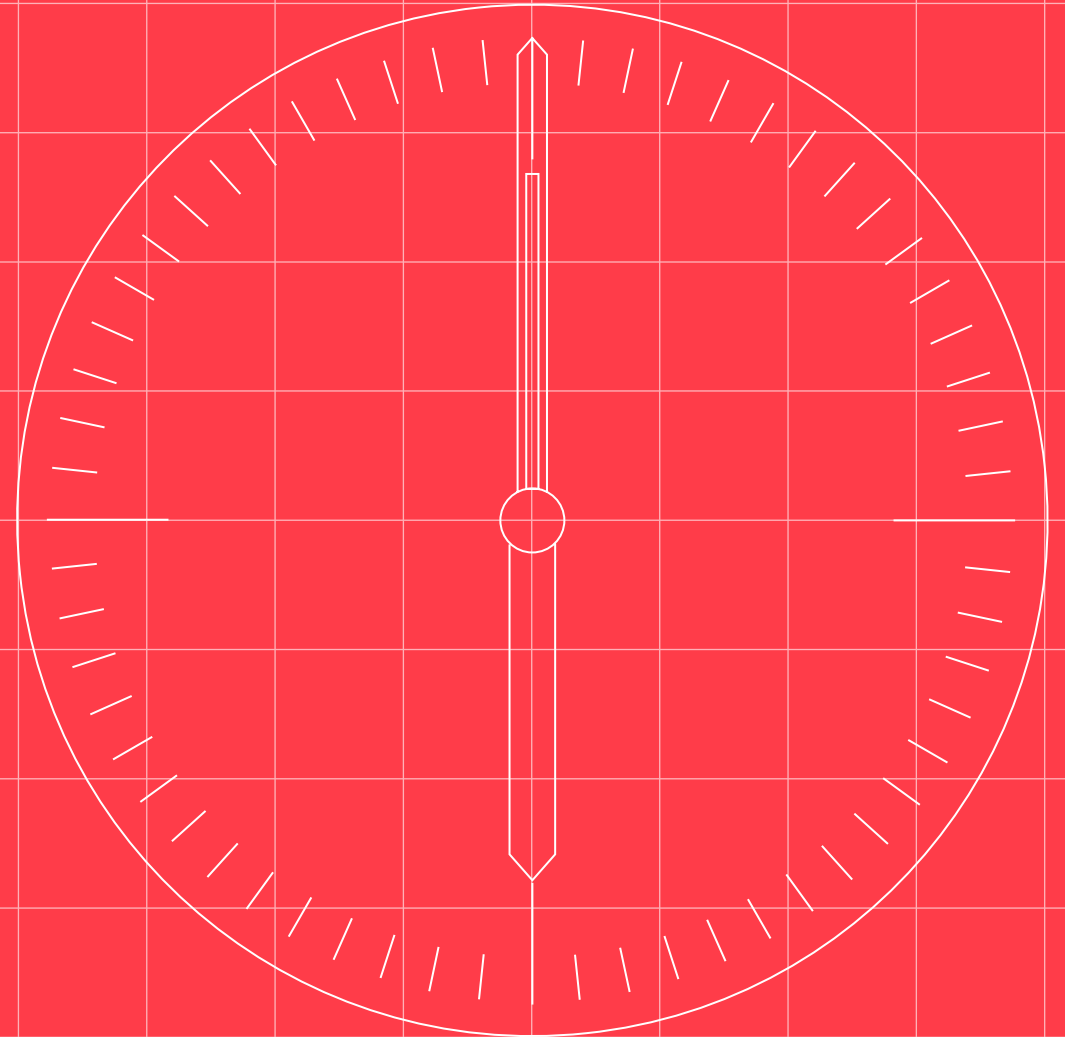
Attachment 1 – CR035 Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates.zip

Minutes and Actions

DECISION: Approve minutes and review actions

Chair & Secretariat

10 mins



Minutes and Actions (1 of 2)

1. Approval of minutes and headlines of last [PSG](#)

2. Review of actions:

Ref	Action	Owner	Due	Latest Update
PSG17-05	Review the post-implementation approach to Benefits Realisation and how Benefits Realisation will be handed over to Ofgem at M16	Programme (Jason Brogden)	PSG February 2024	ONGOING: MHHSP, Ofgem, IPA Benefits Realisation meeting 23-Jan-24 to consider progress on post-implementation benefits monitoring framework and responsibilities for 2 key programme outcomes
PSG18-05	Look into the assurance process for LDSOs for the accuracy of data for DUoS billing	Programme (Jason Brogden)	January 2024	RECOMMEND CLOSED: Settlement testing approach shared in PSG Headline report ONGOING: DBT2 assurance actions with IPA from meeting 8-Nov-23
PSG21-05	Programme to discuss with IPA the potential inclusion of IPA test assurance activities alongside programme plan information, to assist participants' view of effort requirements	Programme and IPA	Q1 2024	ONGOING: IPA test assurance activities have been incorporated into the new MHH Transition Timeline and Implementation Approach. The minor updates include a new swim lane within the POAP which cover related IPA activities. The updated document is due to be republished following the restructuring of certain SIT preparation activities (Q1 2024 Jan-Mar). In the meantime, participants are encouraged to contact the IPA for a view on any IPA assurance activities.
PSG24-01	Elexon and RECCo to provide transparency around qualification testing dates, assumptions on equivalence from SIT, and understanding of testing which may be required in addition to SIT-based evidence requirements. In addition, Elexon and RECCo to ensure the clarifications are raised to the Qualification and E2E Sandboxing Working Group (QWG) and current plan dates are published.	Elexon (Oli Meggitt) & RECCo (Jonny Moore)	04/10/2023	ONGOING: Updates provided under Agenda Item 4.
PSG25-01	Helix to develop high level plan to take forward SASWG/CR013 outputs and engage with Change Raiser	Elexon Helix (John Abbott)	06/12/2023	ONGOING: Recommended approach is that Elexon SMEs prepare a candidate paper outlining the profiling risks inherent in migration. MHH SMEs can then review and provide further insight before putting this in front of the Profiling Expert Group (PEG) within the Supplier Volume Allocation (SVA) sub-committee of the BSC.

Minutes and Actions (2 of 2)

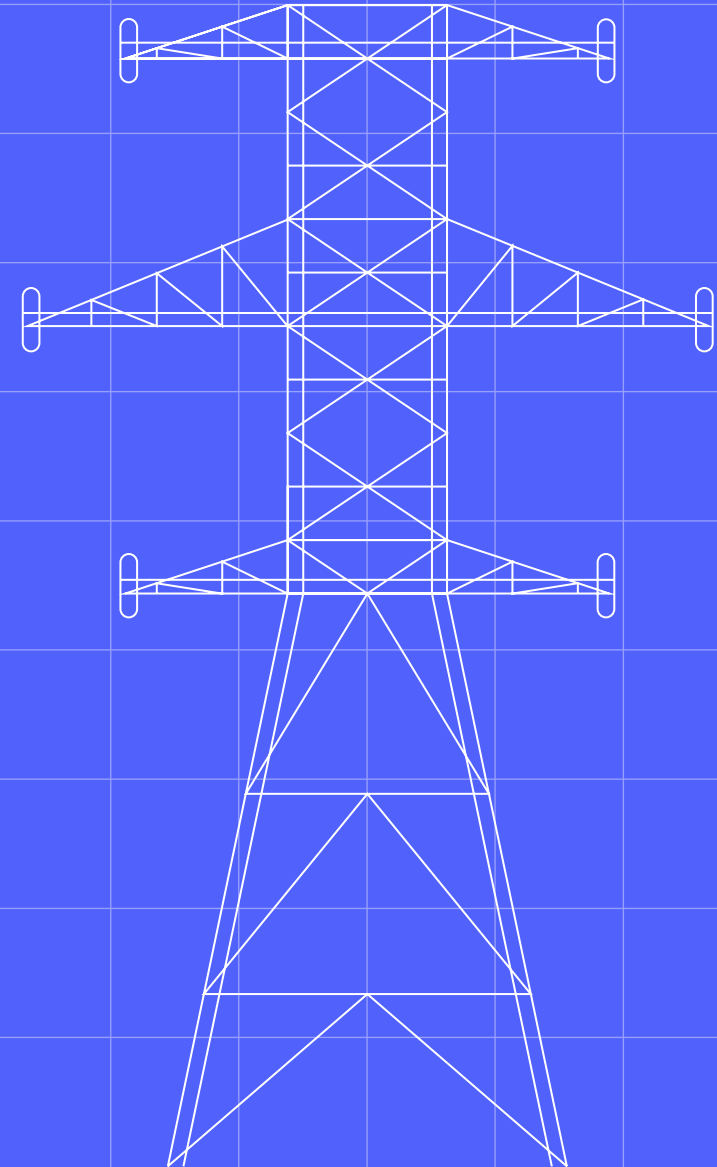
Ref	Action	Owner	Due	Latest Update
PSG26-01	Programme to provide high level summary of outcomes and next steps for the settlement accuracy element of ACTION PSG18-05 (assurance process for LDSO for the accuracy of DUoS billing data)	Programme (Jason Brogden)	09/11/2023	RECOMMEND CLOSED: Summary provided in Headline Report and Minutes of PSG 08 November 2023. DBT2 assurance aspect of ACTION PSG18-05 to be progressed by IPA ahead of review with Ofgem in January 2024.
PSG26-02	PSG members to provide views from constituents on anything they would like from Ofgem beyond what is currently provided to PMO@mhhsprogramme.co.uk	PSG Members	06/12/2023	ONGOING: PSG members to provide views no later than 15 December 2023.
PSG26-03	Ofgem to provide a view of expectations on industry parties and strategic priorities/drivers at the January 2024 PSG.	Ofgem (Melissa Giordano)	10/01/2024	ONGOING: January 2024 PSG.
PSG26-04	Programme to confirm participants are not required to operate parallel environments for SIT and QT	Programme (Nicola Farley)	06/12/2023	RECOMMEND CLOSED: The Programme confirms participants will not be required to operate parallel environments for SIT and QT.
PSG26-05	Programme to discuss risk R677, relating to migration functionality, with St Clements	Programme (Keith Clark)	06/12/2023	RECOMMEND CLOSED: The Programme have updated risk R677 and notified St Clements for comment.
PSG26-06	Programme to communicate arrangements for the holiday period	Programme (PMO)	06/12/2023	RECOMMEND CLOSED: Holiday working arrangements published in The Clock on 15 November 2023. Further notices will be provided in The Clock and to MHHS governance groups.

CR035 Decision

DECISION: PSG recommendation on approval of CR035

Programme (Immy Syms) & Chair

15 mins



Objective:

PSG to review the outputs of the CR035 Impact Assessment and advise the SRO on their decision to approve or reject the Change Request.

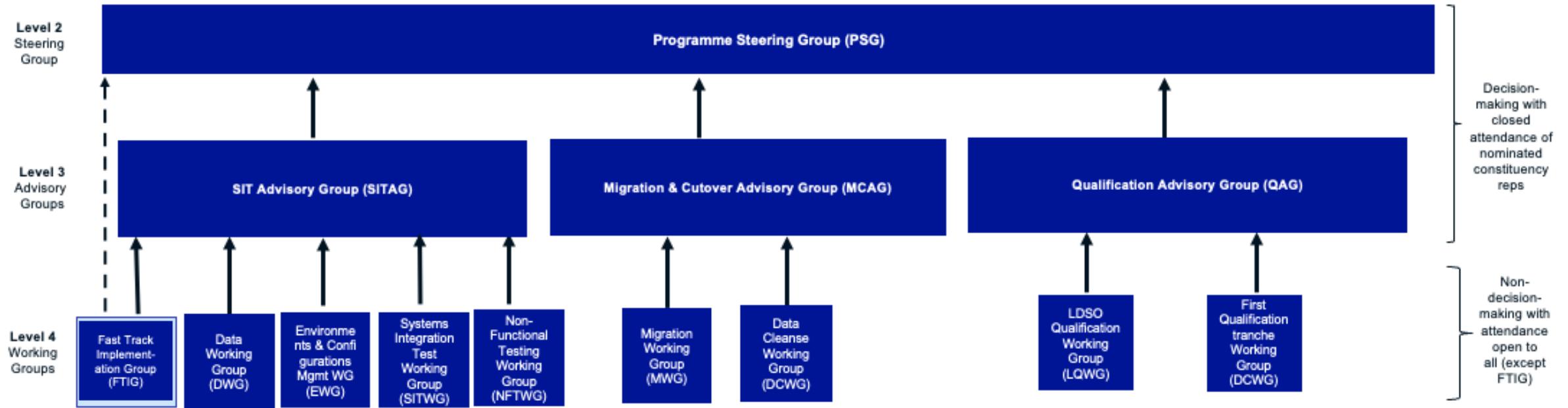
Headlines:

- Responses to the CR035 Impact Assessment were largely in favour of the implementation of the Change Request.
- Response rates were higher than usual due to LDSOs submitting a communal vote in favour of the implementation of the Change Request.
- Overall: **28 respondents supported the change; 2 respondents rejected the change; and no respondents abstained from voting.**
- **The supporters of the change highlighted the following items/themes to support their decision:**
 - The split of TMAG into three groups will be positive and allow each group to focus on its own specific area. It will allow constituent parts to improve oversight and decision making. Greater attention will be given to the areas of the Programme that need it most.
 - The separation of TMAG will enable the Programme to be more effective in governance and to focus time on more specific areas and deliver at pace.
 - The changes to provide additional clarity on the processes for escalations and appeals were supported.
- **The respondents who voted against the Change Request did so on the following basis:**
 - MCAG should have separate Small, Medium and Large Supplier representation due to their different experiences of migration, data cleanse and transition/operational readiness.
 - The change would introduce resource constraints upon constituencies, especially small suppliers.
 - It is unclear how each group would communicate and manage interdependencies.

- **There were a number of requests/recommendations from supporting and rejecting respondents:**
 - Having one representative to cover all domestic suppliers will not work in practice. There should be separate Small, Medium and Large Supplier reps at MCAG.
 - An understanding of the timings, schedule and cadence of the meetings is required to enable consideration of resourcing requirements.
 - It was suggested that meetings should be run on the same day, or at minimum on consecutive days, to allow pre and post meetings to be amalgamated, thus reducing the impact on participants on their reps' time and schedules.
 - It was questioned whether an increased frequency of existing TMAG meetings, keeping the same representation, was considered as an option.
 - With reference to CR018, it was requested that a review was conducted over the existing voting mechanism at DAG, which resulted in LDSOs being outvoted by the DAG Chair when they raised concerns surrounding the implementation of the Change Request, and that it should be defined how the IPA considers appeals against decisions criteria taken via MHHS Governance.
 - Clarity was requested on what the decision-making responsibilities of each Advisory Group will be, and which Working Groups will sit under each Advisory Group.
 - RECCo recommends the implementation of a single Testing Advisory Group covering both SIT and Qualification testing, as the expertise required would be common across both groups, and doing so would reduce the impact on cost, resource and schedule.
 - Periodic review of governance ways of working should be undertaken every 6 months to ensure the processes remain valid and any working groups no longer needed are disbanded in a timely manner.
- **Programme implementation plan:**
 - Following approval of the Change Request, there will be an urgent action assigned to PMO to issue calls for representative nominations for QAG, SITAG and MCAG. Requests will go out in the Clock on Wednesday 6th December.
 - Groups will be mobilised with a target start date in February 2024. PMO will be responsible for scheduling the meetings and ensuring these do not clash with pre-existing meetings.
 - Terms of Reference for each new group will be reviewed by the relevant Advisory Groups and submitted PSG for approval.
 - The MHHS PMO will re-assign the relevant milestones within the programme plan and milestone register to the relevant governance group, and implement RAID governance at each of the newly established Governance Groups in line with existing operation.
 - To mitigate the impact of the increased number of governance groups requiring PMO support and wider programme meeting chairs upon programme capacity, the requirement for the production detailed minutes is proposed to be removed. Headline reports will continue to be produced and published and governance groups will continue to be recorded for Programme Participants to watch back.

CR035 – MHHS Governance TMAG Restructure

- The proposed TMAG restructure is illustrated below:



CR035 – Submitted Impact Assessments

Programme Parties	CR035 Recommendations			
	Yes	No	Abstain	No Reply
Large Suppliers	3	1	-	1
Medium Suppliers	1	-	-	6
Small Suppliers	-	-	-	33
I&C	1	-	-	40
DNOs	6	-	-	-
iDNOs	13	-	-	-
Ind. Agents	-	-	-	47
Supplier Agents	-	-	-	7
S/W Providers	1	1	-	23
REC Code Manager	1	-	-	-
National Grid ESO	-	-	-	1
Consumer	-	-	-	1
Elexon (Helix)	-	-	-	1
DCC	1	-	-	-
SRO / IM & LDP	1	-	-	-
IPA	-	-	-	1
Avanade	-	-	-	1
Totals	28	2	-	162

Market Share			
Yes	No	Abstain	No Reply
59%	29%	-	12%
10%	-	-	90%
-	-	-	100%
20%	-	-	80%

Market Share information is according to the latest Meter Point Administration Number (MPAN) data held by the Programme as of August 2023. Market Share has not been provided for constituencies where MPAN data is not currently available.

Notes:
The classification of Independent and Supplier Agents is maintained by the Programme Party Coordinator and is subject to change.

No respondents have been marked as abstained.

CR035 Impacts – Views on the proposed approach (Page 1)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR035)
Large Suppliers	<ul style="list-style-type: none"> + Three of the four responding Large Suppliers supported the implementation of the Change Request. + The split of TMAG into three groups will be positive and allow each group to focus on its own specific area. + The changes to provide additional clarity on the processes for escalations and appeals were supported. + The one rejecting supplier stated their support of the proposal to split TMAG into constituent parts to improve oversight and decision making. - One responding Large Supplier rejected the Change Request. They did so on the basis of the proposed constituency representation at MCAG. They have requested the retention of separate Small, Medium and Large Supplier representation at this group. - There is a potential for cost implications as the splitting of the meeting may result in constituent parties having to resource these meetings through external representation. - The risk was raised that Qualification may become further siloed from Migration, which could result in suppliers with a large number of MPANs taking longer to complete their migration, and therefore potentially delaying M15. <ul style="list-style-type: none"> ▪ It was suggested that meetings should be run on the same day, or at minimum on consecutive days, to allow pre and post meetings to be amalgamated, thus reducing the impact on participants on their reps' time and schedules. ▪ The MCAG should have Large, Medium and Small supplier constituent representation, rather than an overall domestic supplier rep. ▪ It was noted that the current constituency model is no longer appropriate. There are now 3 different types of large suppliers: those going through SIT; those going through qualification; and those taking a mixed approach. It is argued that the diverse interests of these 3 groups cannot be covered by a singular rep. ▪ It was questioned whether an increased frequency of existing TMAG meetings, keeping the same representation, was considered as an option. ▪ It was questioned whether there were draft ToRs or outline scopes available for each group. ▪ It was questioned how the Programme will manage and align the interdependencies between test, qualification and migration if these are split into separate advisory groups.
Medium Suppliers	<ul style="list-style-type: none"> + The one responding Medium Supplier supported the implementation of the Change Request.
Small Suppliers	<i>Did not respond.</i>
I&C	<ul style="list-style-type: none"> + The one responding I&C Supplier supported the implementation of the Change Request, noting that they anticipated that TMAG would need to evolve and change following M9 and the divergence between those parties participating in SIT and those choosing to proceed via qualification. - They noted concerns regarding the resourcing impacts of increasing the number of meetings and how the appropriate constituency representatives will be sourced. <ul style="list-style-type: none"> ▪ They requested that the constituency split for the MCAG would be the same as for other groups.
Agents	<i>Did not respond.</i>

CR035 Impacts – Views on the proposed approach (Page 2)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR035)
DNOs	<ul style="list-style-type: none"> + All i/DNOs submitting a collective response, stating their support of the implementation of the Change Request. + They agreed that the separation of TMAG would enable the Programme to be more effective in governance and to focus time on more specific areas and deliver at pace. + They also welcome the clarity on appeals mechanisms. <ul style="list-style-type: none"> ▪ With reference to CR018, it was requested that a review was conducted over the existing voting mechanism at DAG, which resulted in LDSOs being outvoted by the DAG Chair when they raised concerns surrounding the implementation of the Change Request. ▪ It was recommended that it should be defined how the IPA considers appeals against decisions criteria taken via MHHS Governance.
iDNOs	<ul style="list-style-type: none"> ▪ <i>As above</i>
S/W Providers	<ul style="list-style-type: none"> + One responding Software Provider supported the implementation of the Change Request. They did so on the rationale that it was very unlikely that the risks would outweigh the benefits of the change. – One responding Software Provider rejected the implementation of the Change Request. They did so due to the resource constraints that the change would place upon constituencies, especially small suppliers. – They also noted that it was unclear how each group would communicate and manage interdependencies.
REC Code Manager	<ul style="list-style-type: none"> + RECCo voted in favour of the implementation of the Change Request. + They agreed that the splitting of TMAG would lead to more effective governance. <ul style="list-style-type: none"> ▪ They requested clarity on what the decision-making responsibilities of each Advisory Group will be, and which Working Groups will sit under each Advisory Group. ▪ RECCo recommends the implementation of a single Testing Advisory Group covering both SIT and Qualification testing, as the expertise required would be common across both groups, and doing so would reduce the impact on cost, resource and schedule.

CR035 Impacts – Views on the proposed approach (Page 3)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR035)
National Grid ESO	<i>Did not respond.</i>
Consumer	<i>Did not respond.</i>
Elexon (Helix)	<i>Did not respond.</i>
SRO / IM & LDP	<ul style="list-style-type: none"> + As the Change Raiser, the Programme is supportive of the implementation of the Change Request. + The newly established governance groups will have a small and more focussed remit to manage, meaning greater attention will be given to the areas of the Programme that need it most. – The Programme recognises that Programme Participants will need to attend more meetings, and therefore will require additional resourcing which could impact the ability of critical expertise and personnel to attend the meetings they are needed in to enable robust decision making and progress of artefacts. This is noted alongside the requirement of the MHHS PMO to facilitate more meetings with the same resource, which risks impacting the quality and timings of inputs into and outputs from the meetings. <ul style="list-style-type: none"> ▪ Periodic review of governance ways of working should be undertaken every 6 months to ensure the processes remain valid and any working groups no longer needed are disbanded in a timely manner. ▪ It is proposed that detailed minutes are removed from the scope of meeting outputs as this content is included within headline reports and meeting recordings.
IPA	<i>Did not respond.</i>
Avanade	<i>Did not respond.</i>

Decision on approval of CR035

The PSG are requested to advise the SRO on their decision to approve or reject CR035 ([Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates](#)):

DECISION [64]

SRO to approve/reject CR035 'Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates'

Next Steps

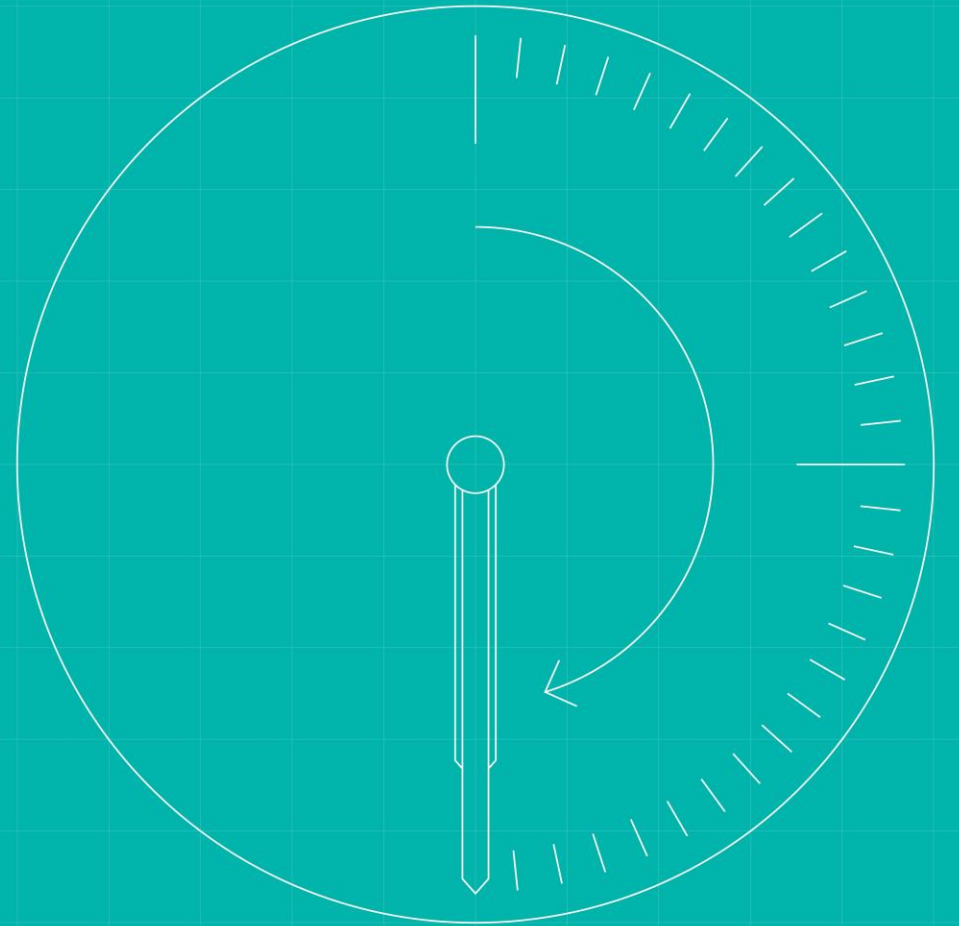
- Subject to approval calls for representative nominations will be issued via The Clock
- Groups will be mobilised with a target start of February 2024
- ToRs will be reviewed at the inaugural meetings and submitted to PSG for approval
- Relevant milestones and RAID items will be assigned to the new groups

Qualification Testing Updates

INFORMATION: Updates on non-SIT LDSO, Supplier, and Agent Qualification Testing

Elexon (Victoria Moxham and Laura Kennedy) & Programme (Nicola Farley)

20 mins



Context: Non-SIT Suppliers and Agents

- Non-SIT Suppliers and Agents have raised concerns on the lack of a clear plan for Qualification and tranche allocation (in particular, the ‘first come, first served’ approach).
- This update to PSG summarises the work that we have undertaken to address these concerns.
- Code Bodies, with input from the Programme have developed and presented a Qualification Plan for non-SIT Suppliers and Agents at the Extraordinary QWG on 27th November. This plan was well received, with helpful comments from attendees on the detail that we will use to refine the plan.
- The plan, incorporates a revised ‘Wave Approach’ to address Participant concerns on tranche allocation. The Wave Approach, summarised in the next slide, will smooth the entry of Participants into Qualification Testing and better meet their requirements, while maintaining alignment to the Programme Plan. It will do this by:
 - Gathering additional information upfront to allow Code Bodies to scale testing and resource capacity appropriately
 - Providing information to Code Bodies so that they can work with Participants to validate their Wave Allocation preferences
 - Allowing greater flexibility for Participants to move through the testing phase at their own speed e.g. to Qualify before the end of their Wave.
- Adjustments to activities will be updated in the Programme Plan, as well as being captured in the Qualification Approach and Plan(QA&P), to provide clarity to parties on the revised approach.

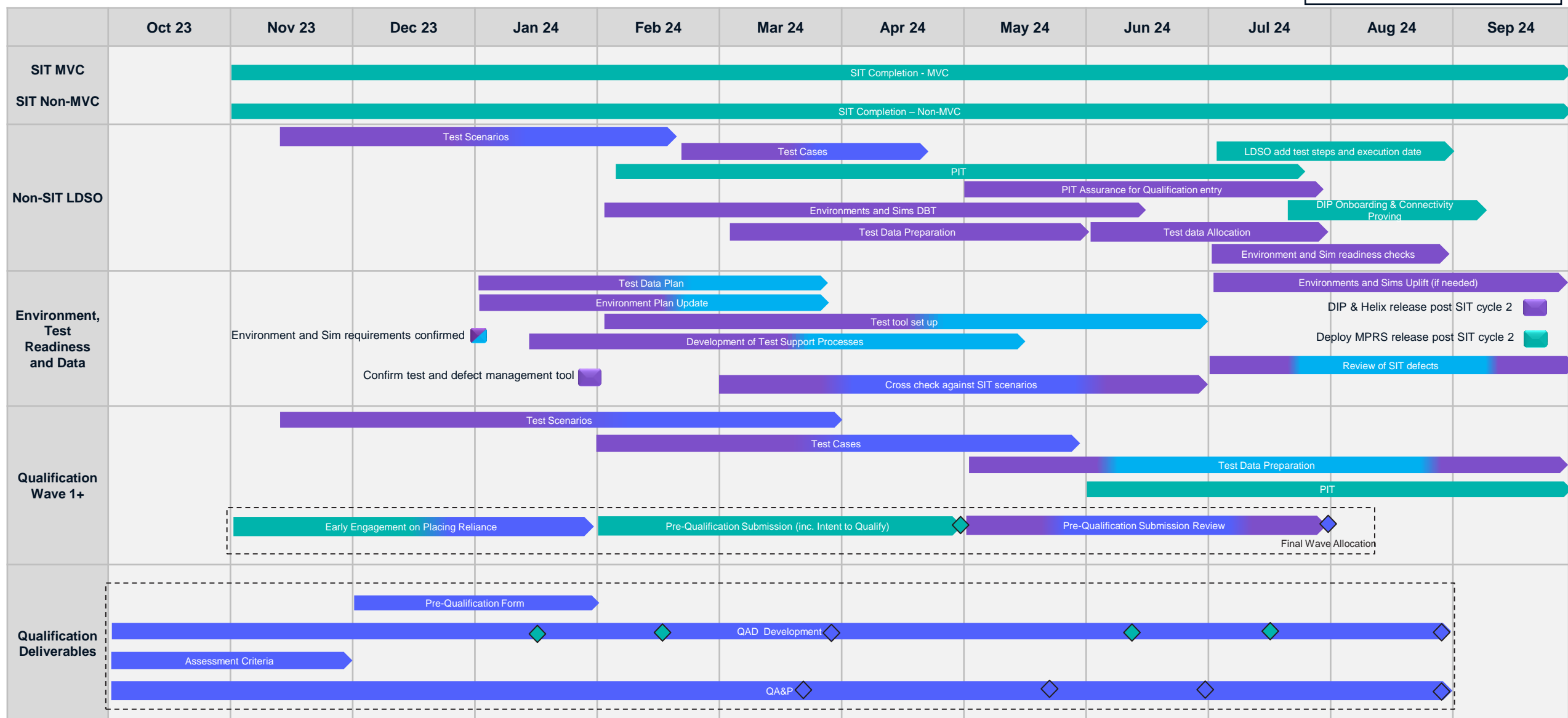
Wave Approach for non-SIT Suppliers and Agents

- We recognise that allowing Participants additional time to plan based on the release of the Assessment Criteria, Wave Entry dates, Test Scenarios and Test Cases will allow for the best indication of the Wave in which a Participant will be ready to undertake QT. Therefore, we have proposed replacing the Placing Reliance and Intent to Qualify with a Pre-Qualification Submission by the end April 2024.
- The information in the Pre-Qualification Submission will allow us to understand the capacity required to support each wave as well as the suitability of a Participant for a particular wave based on an objective criteria (to be further developed with input from QWG). We expect the submission to include details around PIT and QT completion along with any Placing Reliance proposals. A draft of the document will be reviewed at the December QWG.
- We will seek to flex capacity to meet Participant wave requests as far as possible. Where there are still capacity issues, we will work with Participants to understand their willingness and ability to adjust to a different wave. If capacity continues to be exceeded we would undertake a last resort random reallocation process.
- Once allocated, we would utilise a number of checkpoints to monitor progress against the Qualification Testing Entry Criteria and where participants are not on track they may be moved to a later wave, with a waiting list in place for participants wanting to move up.
- The start date for QAD reviews and Qualification Testing window will be defined for each Qualification wave. However, once a participant has entered testing they can move through their designated wave as they wish.
- A review of the plan and timeline has identified that participants may be able to complete QT in a shorter period. While the overall Qualification Testing phase remains the same length, we have reduced the number of waves to support participants more efficiently.
- The Qualification plan aligns to the high level published MHHSP milestones and timelines. The plan assumes Service Activation and the start of migration for non-SIT Parties will be 30 September 2025. Requirements for entry to Migration will be set out by the Migration Workstream.

Overall Qualification Plan on a Page (1/2)

Key
 MHHSP
 S&A Test Mgr
 Code Bodies
 Participants

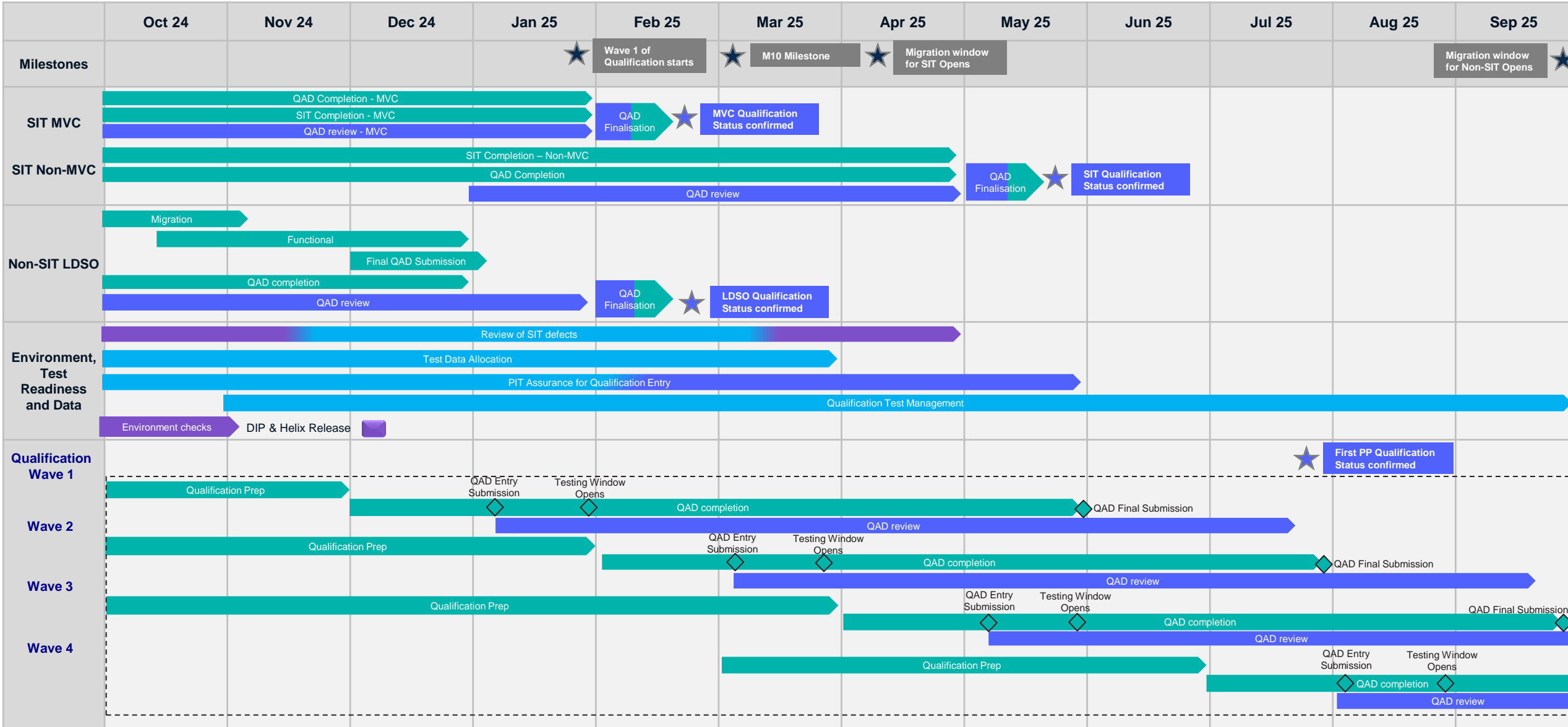
 Additional detail on further slide



Overall Qualification Plan on a Page (2/2)

Key
 MHHSP
 S&A Test Mgr
 Code Bodies
 Participants

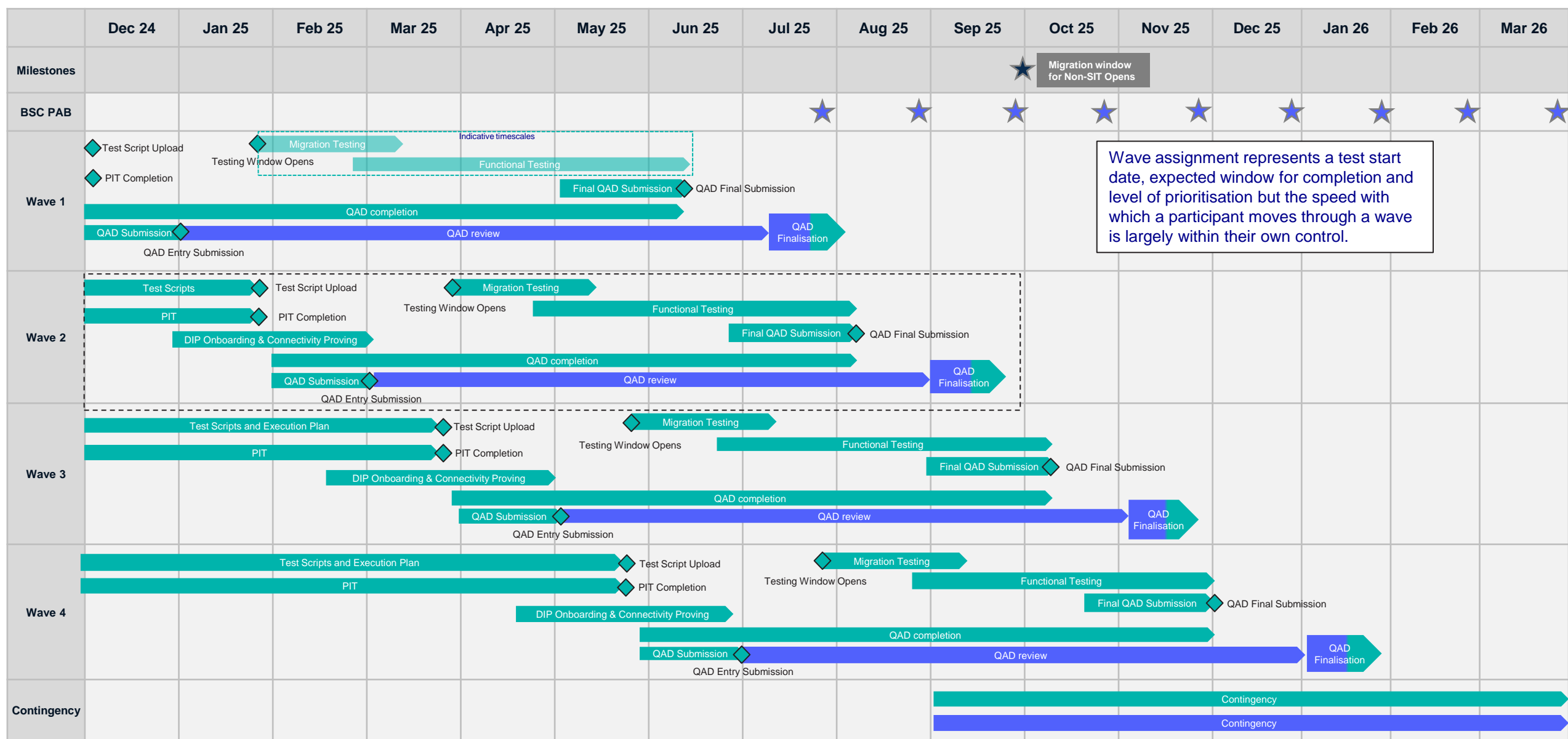
 Additional detail on further slide



Qualification Waves Plan on a Page (1/1)

Key
 Code Bodies
 Participants

 Additional detail on further slide



Wave assignment represents a test start date, expected window for completion and level of prioritisation but the speed with which a participant moves through a wave is largely within their own control.

SIT Participants and QT

Will SIT Participants be required to participate in QT?

- MHHSP and Code Bodies do not expect SIT Participants to be required to complete any Qualification Testing as they are working together to ensure that the scope of SIT provides sufficient coverage for Code Qualification. However, this is dependent on the final scope of SIT being confirmed.
- To mitigate the risk that SIT scope is not sufficient for Qualification, Code Bodies are continuing to review and feedback on the SIT Approach and Plan documents as well as the Test Scenarios and Test Cases to ensure full coverage.
- In addition to SIT scope, Code Bodies will need to consider any changes that take place following SIT e.g. if a SIT Participant made a material change to its systems after SIT or contracted with a different third-party software provider. This may require further regression testing to support Qualification.
- Additional testing may, or may not, require connection to the UIT environment and consideration will be given to whether completion of any additional testing can be conducted using the participant's PIT environment.

Moving from SIT to Qualification Waves

- MHHSP want Participants who start in SIT to stay in SIT. They will support Participants to complete SIT and will work with Participants to understand any concerns and identify a mitigation where possible.
- Where a Participant cannot complete Qualification as part of SIT, the Code Bodies will look to accommodate them in the QT Waves as soon as possible. However, this would need to take into account a review of SIT completion against the QT scope as well as any preparation window required for the Participant including environment connectivity, data load etc.

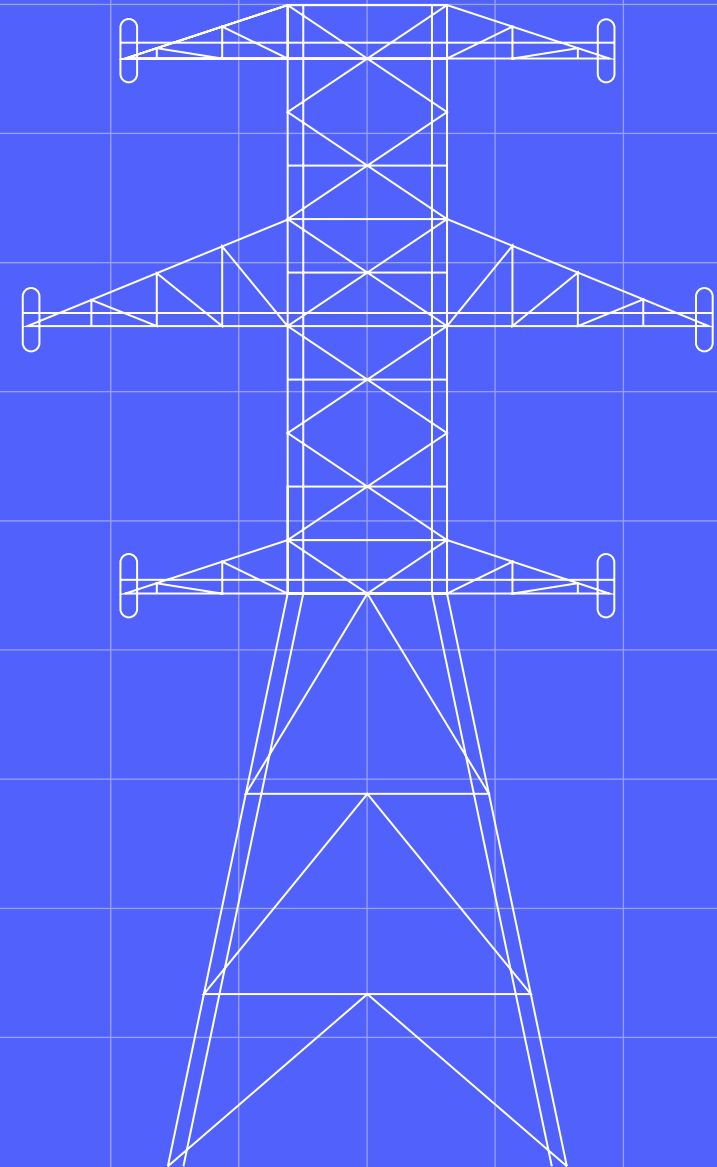
- The lower-level detail that underpinned the updated shared at November's PSG was socialised at QWG for review
- LDSOs shared very useful feedback which is being used to refine the plan approach.
- This feedback included:
 - alternative approaches to test data. The programme is reviewing this, with the view to sharing an updated approach at December's QWG
 - as well as further detail on the choreography between end of SIT Cycle 2, deployment of MPRS release, LDSOs' internal verification of releases and LDSO Qualification Testing execution starting. Programme is reviewing this in conjunction with the release management approach shared at FITG (23/11)
- Work is on track on the development of the LDSO QT approach, with this be scheduled to be shared at QWG in January

Programme Reporting

INFORMATION: Progress reporting against the Programme Plan

Programme (Keith Clark & Adrian Page)

10 mins



MHHS Milestone Status (1) *

Milestone ID	Milestone Title	Baseline Date	Forecast Date	Previous RAG 8th Nov	Current RAG 6th Dec	Forecast RAG 10th Jan	Commentary
T2-RA-0200	Readiness Assessment 3 - Design & Build Checkpoint 1 - Completed (including Readiness Assessment Report approval)	Fri 13/11/23	Mon 27/11/23	Green	Blue	Grey	
T3-TE-0090	Environment Approach and Plan - SIT Functional	Wed 15/11/23	Wed 20/11/23	Green	Blue	Grey	
T3-TE-0061	Component Integration Testing Interval 2 Start	Mon 13/11/23	Mon 13/11/23	Green	Blue	Grey	
T3-TE-0091	Environment Approach and Plan – Non-SIT LDSOs	Wed 15/11/23	Wed 15/11/23	Green	Red	Red	On hold whilst discussions are being held between Programme and Code Bodies. When concluded, date will be re-planned by agreement with the Qualification Advisory Group
T2-DB-0250	Tranche 2 Transition Design Baselined	Thu 15/11/23	Wed 15/11/23	Green	Blue	Grey	
T3-DB-0093	SIT Functional PIT Test Approach & Plan (PIT) submitted to Programme for assurance	Fri 17/11/23	Fri 17/11/23	Green	Red	Blue	Some PPs have missed this deadline, impact currently expected to be manageable depending on those PPs recovering quickly
T2-TE-0350	SIT Component Integration Testing 3 Preparation Complete (including approval of SI SIT Component Integration Test Readiness Report)	Mon 20/11/23	Mon 20/11/23	Green	Blue	Grey	
T2-DB-0200	SIT PPs' design assurance (excluding Migration/Reverse Migration) complete	Wed 22/11/23	Wed 22/11/23	Green	Blue	Grey	
T3-TE-0062	Component Integration Testing Interval 3 Start	Mon 27/11/23	Mon 27/11/23	Green	Blue	Grey	
T2-TE-0400	SIT Component Integration Testing 4 Preparation Complete (including approval of SI SIT Component Integration Test Readiness Report)	Mon 04/12/23	Mon 04/12/23	Green	Green	Blue	This date will be reached between PSG paper date and PSG meeting, currently forecast to be met on time. RAG to be confirmed at the PSG meeting
T3-DB-0091	SIT Functional PIT RTTM submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23	Green	Yellow	Blue	Risk that some PPs will miss this deadline, impact currently expected to be manageable depending on those PPs recovering quickly
T3-DB-0089	SIT Functional PIT test scenarios submitted to Programme for assurance	Thu 07/12/23	Thu 07/12/23	Green	Yellow	Blue	Risk that some PPs will miss this deadline, impact currently expected to be manageable depending on those PPs recovering quickly
T3-TE-0015	SIT Functional Testing Test scenarios approved	Fri 08/12/23	Fri 08/12/23	Green	Green	Blue	
T3-TE-0063	Component Integration Testing Interval 4 Start	Mon 11/12/23	Mon 11/12/23	Green	Green	Blue	
T3-TE-0018	SIT Migration Testing Test Approach & Plan approved	Wed 20/12/23	Wed 20/12/23	Green	Green	Blue	

Milestone RAG definitions

Complete

On track

Likely to be met if issues / risks are resolved / mitigated

Unlikely to be met without escalated support

- All Tier 1 and Tier 2 milestones to SIT Functional Testing Start are included. Selected Tier 3 milestones are included for context

MHHS Milestone Status (2) *

Milestone ID	Milestone Title	Baseline Date	Forecast Date	Previous RAG 8th Nov	Current RAG 6th Dec	Forecast RAG 3rd Jan	Commentary
T2-TE-0450	SIT Component Integration Testing 5 Preparation Complete (incl. approval of SI SIT Component Integration Test Readiness Report)	Mon 08/01/24	Mon 08/01/24	On track	On track	On track	
T3-DB-0139	All SIT Functional Test approach and plans MHHS Reviews Completed	Thu 11/01/24	Thu 11/01/24	On track	On track	On track	
T3-TE-0064	Component Integration Testing Interval 5 Start	Mon 15/01/24	Mon 15/01/24	On track	On track	On track	
T3-TE-0070	SIT Functional Testing Test cases approved	Wed 17/01/24	Wed 17/01/24	On track	On track	On track	
T3-DB-0140	All SIT Functional RTTMs MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24	On track	On track	On track	
T3-DB-0141	All SIT Functional Test scenarios' MHHS Reviews Completed	Thu 18/01/24	Thu 18/01/24	On track	On track	On track	
T3-BC-0010	Service Management Strategy approved	Fri 19/01/24	Fri 19/01/24	On track	At Risk	At Risk	Will be discussed at the new TORWG on 05-Dec, and assessment of this forecast delivery date will be made based on feedback
T3-DB-0181	All UMISO PIT (CIT interval 6) Completion Reports MHHS Review Completed	Fri 19/01/24	Fri 19/01/24	On track	On track	On track	
T2-TE-0500	SIT Component Integration Testing 6 Preparation Complete (incl. approval of SI SIT Component Integration Test Readiness Report)	Mon 22/01/24	Fri 19/01/24	On track	On track	On track	
T3-TE-0065	Component Integration Testing Interval 6 Start	Mon 29/01/24	Mon 29/01/24	On track	On track	On track	
T3-TE-0103	SIT Functional Connectivity Proving Complete	Fri 02/02/24	Fri 02/02/24	On track	On track	On track	
T3-TE-0032	SIT Component Integration Testing End (incl. confirmation that PPs have submitted their Test Completion Reports to Programme for assurance)	Fri 23/02/24	Fri 23/02/24	On track	On track	On track	
T3-DB-0142	All SIT Functional PIT Completion Reports MHHS Review Completed	Fri 23/02/24	Fri 23/02/24	On track	On track	On track	
T2-TE-0550	SIT Functional Testing Preparation Complete	Fri 01/03/24	Fri 01/03/24	On track	At Risk	At Risk	In line with detailed SIT dashboards and reporting
T2-TE-0600	SIT Component Integration Testing Test Completion Report Approved	Fri 08/03/24	Fri 08/03/24	On track	On track	On track	
T3-TE-0034	SIT Functional Testing Start	Mon 11/03/24	Mon 11/03/24	On track	At Risk	At Risk	In line with detailed SIT dashboards and reporting

Milestone RAG definitions

Complete

On track

Likely to be met if issues / risks are resolved / mitigated

Unlikely to be met without escalated support

- All Tier 1 and Tier 2 milestones to SIT Functional Testing Start are included. Selected Tier 3 milestones are included for context

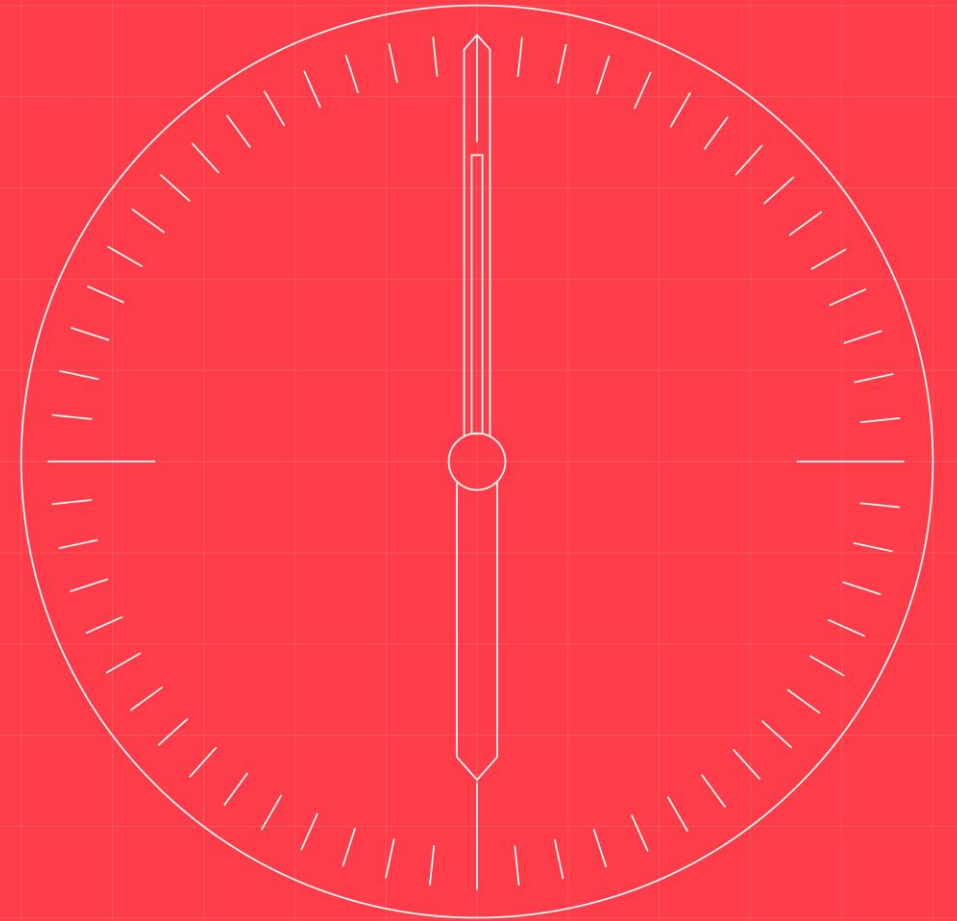
- Initial interval test completion progress has so far been slower than originally planned
- Scope of the design tested is greater than percentage of test cases executed
- Most significant topic has been DIP onboarding where learnings have been identified and are being applied to future intervals, namely:
 - Clearer stages to the onboarding process developed and communicated to PPs
 - PP 'check-ins' added at each onboarding stage
 - User guides updated
 - Strict PP readiness checks applied ahead of each PP formally starting CIT (from Interval 3 onwards)
 - Further support material (including videos and FAQs) being prepared for future PPs and later MHHS activities
- Several defects identified and resolved by the Core Capability Providers (CCPs):
 - Firewall message capacity change
 - Microsoft infrastructure change
 - Location firewall change for non-UK data centres
- MHHS defect and triage management internal process has seen continuous improvement
- Weekly test progress report shared with FTIG members
- CIT Interval progress and communications / learnings shared at weekly FTIGs, ahead of requesting FTIG recommendations on next CIT Interval milestones

Readiness Assessment Three (RA3)

INFORMATION: Overview of Readiness Assessment 3
next steps

Programme (Francesca Drew)

5 mins



Readiness Assessment Three (RA3)

Overview

On 5 September 2023, Readiness Assessment Three (RA3) was issued to the Principal Contacts of the MHHS Programme's industry participants. Participants were provided with 15 working days to complete the survey. The survey closed on 25 September 2023.

Purpose of Readiness Assessments

The Programme's Readiness Assessments provide an opportunity for participants to communicate progress and seek support where required. They provide the Programme with an accurate view of a participant's status, which can help inform decision making for the Programme.

Reporting

On 27 November 2023, each participant who responded to RA3 received a bespoke, individual participant report, containing a summary of key findings and a series of recommendations for next steps following RA3.

All participants have also received a copy of the RA3 Overall Report, which provides a holistic view of the RA3 results and analysis across all areas of the survey, including Delivery Information, Testing, Qualification, Migration and Communications and Engagement.

RA3 Next Steps

Although the Programme is strongly encouraged by the results of RA3, participant responses have allowed the Programme to identify some key risks to successful delivery. An area of focus having completed RA3 will be for the Programme to monitor these risks as well as progress against the mitigating actions identified. The most pertinent of these risks and mitigating actions have been outlined below.

Key Risks



Migration delivery

30% of SIT participants and 60% non-SIT participants have not yet begun to plan their internal migration approach.



Legacy system changes for Migration

Only a third of participants know when they expect to make changes to their legacy systems for Migration, while other participants seem unaware of needing to make changes.



Qualification timelines

Inconsistencies in some answers from non-SIT participants where dates for DBT1 completion do not align with having all requirements in place indicate unawareness of Qualification timelines.

Mitigating Actions



Engage participants in Migration activities

Continue to deliver Migration activities in line with the Programme Plan and actively engage participants around this.



Raise awareness of legacy system changes

Identify opportunities to increase awareness of required changes ahead of M10, including webinars and increased communications to ensure participants understand their obligations.



Support to understand Qualification

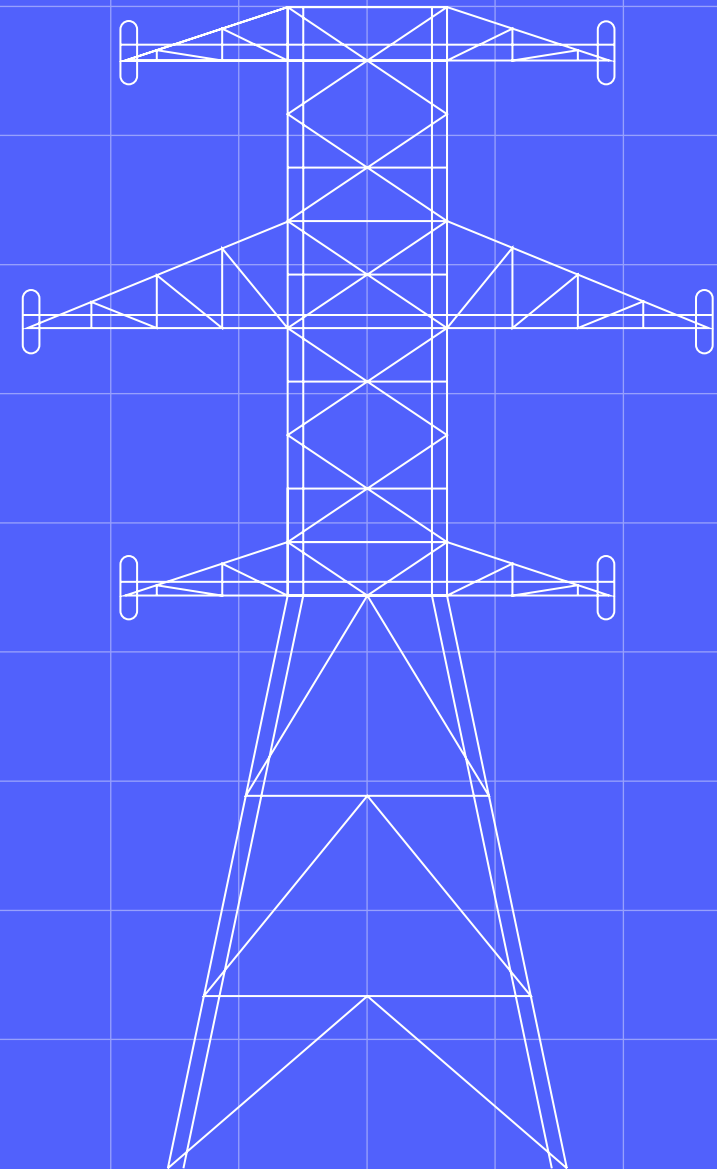
Identify participants who have given inconsistent answers regarding Qualification timelines and support them to understand their obligations.

Change Management During Testing and Code Deployment

DISCUSSION: Information on management of design releases during testing and code deployment

Programme (Kaitlin Jones, Paul Pettitt, Andrew Margan)

15 mins



Context: Instability during Programme delivery, implementation and go-live creates risk for the Programme, Code Bodies and Programme participants.



Objective and solution: Stability needs to be created by increasing change thresholds for change that impacts the MHHS Programme until after go-live and in some cases until after Migration completion*.

The Programme will achieve this by enacting a **Change Freeze**.

*(Informally within the energy industry change freeze is often known as 'Code Freeze')

Change Freeze Assessment

How will Change be assessed during this Change Freeze?

Milestone	Target Operating Model (TOM) Change Status	External Changes that impact the MHHS TOM	External Changes that have no impact on the MHHS TOM
Pre-M9	Changes accepted to improve the Design.	Need a Programme Change Request (CR) to implement.	No impact.
Post M9	Design changes are only accepted if without which the system would not work. "Nice to haves" will go into the backlog. Only P1 and P2 defects are facilitated post M9 pre M10. P3 and P4 defects going into the backlog.	Need a Programme CR to confirm impact, and assessment as whether it meets "TOM deficiency" threshold. Or are strategically important that Ofgem accepts the impact on the MHHS timetable.	No impact.
Post M6	Design Change as above, but extended to Code Changes so they must meet the deficiency in the Code threshold	Need a Programme CR to confirm impact, and assessment as whether it meets to "TOM deficiency" threshold. Or are strategically important that Ofgem accepts the impact on the MHHS timetable.	No Impact.
Post M8 and M10	Design changes are Business As Usual (BAU) (with relevant Code Body) unless they impact the migration process. Same for Code Changes.	Design Changes are BAU with relevant Code Body unless they impact the migration process. Same for Code Changes. A Programme CR impact assessment is required against the migration process.	No impact.
Post M15	All Changes are BAU.	All Changes are BAU.	No impact.

External Changes

- Ofgem supports the need for a Change Freeze:
 - Ofgem will make decisions on whether to approve external changes that may impact the MHHS TOM.
 - Ofgem will also be required to approve Programme decisions that are over a Level 1 threshold.
 - The Programme will continue to meet with Ofgem regularly on any license changes that may impact the Programme.
- All electricity Code Bodies will continue to engage MHHS Programme for all changes which may impact the Programme via Cross Code Advisory Group (CCAG) (and bilaterally).

Internal Changes

- Programme change is centrally managed by the Programme Change Management Approach via the Change Board and coordinated via the CCAG Horizon Scanning process.
- The MHHS Change Board will continue to oversee all Changes to ensure cross-Programme impact is understood.
- Defects and Design Issue Notifications (DINs) raised by Programme participants during Testing. The Programme will focus on those DINs that impact on our ability to proceed to future milestones or go-live. Other non-urgent DINs will be logged but scheduled for post go-live.

Change Freeze – Communications

The Programme will ensure all key stakeholders are aware of this Change Freeze:

- ▶ Cascading this update and scope of Change Freeze through Programme governance (PSG, Level 3 Advisory and relevant Level 4 Workgroups)
- ▶ Code Bodies to cascade the Programme Change Freeze Approach - increase in Change Thresholds - via their panels
- ▶ Publishing key information through Programme Communication Channels (The Clock, Collaboration Base and MHHS website)
- ▶ Engaging with Programme participants via the PPC Team through bilaterals and supporting them with their queries regarding the Change Freeze

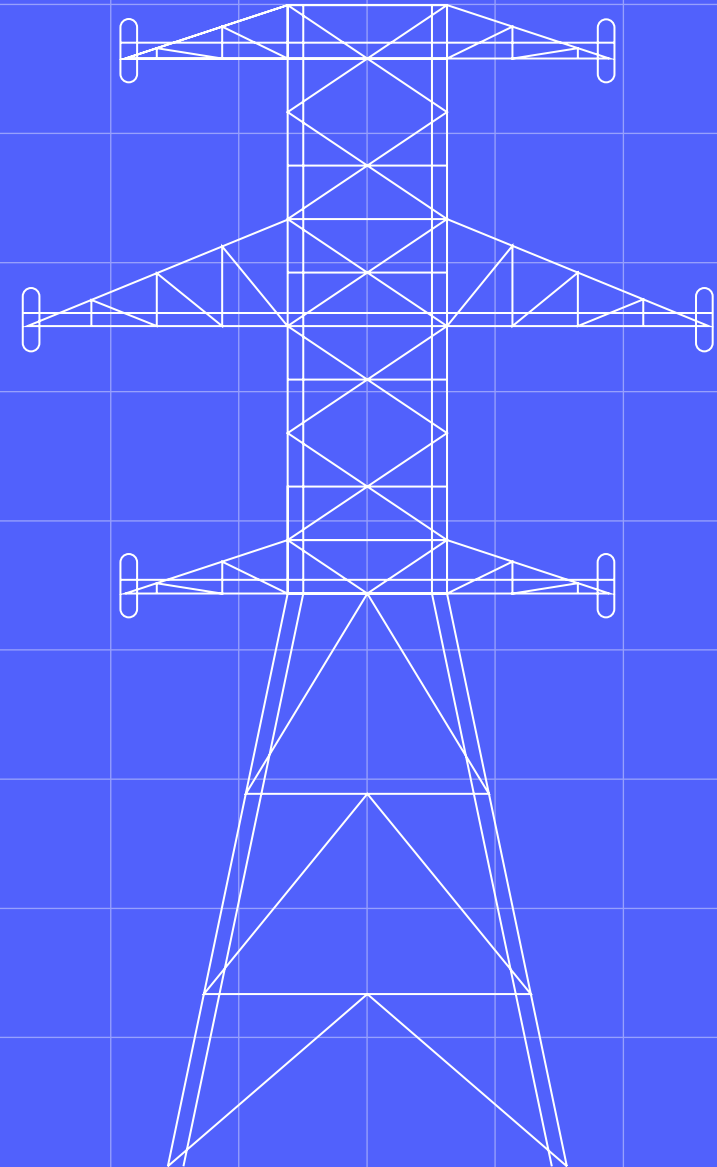
*Note a housekeeping PCR is required to update the Change Control process

Delivery Dashboards

INFORMATION: Questions from PSG members on delivery dashboard content

Chair

15 mins



Delivery Dashboards Overview

Area	Title	Purpose
MHSP Programme Status	Risk Themes	Provide a high-level view of Programme Risks
	Change Control	Update on the status of Change Requests
Industry Delivery Status	SIT MVC Status	Provide the status of SIT participants
	SIT Stage Statuses	Provide status of SIT stages
	Core Capability Provider Delivery Reports	Provide an overview of Helix, DIP, St Clements, RECCo, DCC and ElectraLink delivery plans and progress against them
	LDSO Delivery Updates	Provide the combined status and progress of LDSO delivery (DNOs and iDNOs)
	Central Party Finances	Provide high level Central Party budgets and expenditure
	SI Workstream Update	Update on activity and progress in the Design Management, Testing and Transition workstreams
MHSP Workstream Activity	Fast Track Implementation Group (FTIG) Update	Update on the progress of FTIG
	Code Drafting Status	Update on the progress of Code Drafting against the Code Draft plan
	Level 3 Advisory Group Updates	Update on key discussion items and outcomes from recent Level 3 Advisory Groups and provide a forward look of agenda items
	PPC Activity	Provide information on PPC activity and participant engagement – includes a summary from the recent open day
	Industry Change	Summarise items raised to the Programme horizon scanning process
Assurance	Independent Programme Assurance (IPA)	Provide a progress update on in-flight and planned assurance activities

Risk theme 1: Commencing and completing SIT as planned

RAID (1 of 3)
Updated to 27/11/2023

Theme	Summary	Mitigation Approach Overview	RAG Status	
Commencing and completing SIT as planned	SIT success is reliant on (1) Core Capability Providers being ready, (2) sufficient volunteers being available to sustain a minimum viable cohort (MVC) through SIT, and (3) sufficient volunteers progressing through SIT to enable earliest migration	<ul style="list-style-type: none"> Ongoing liaison with Code Bodies on Qualification requirements that might drive SIT requirements (e.g. assurance activities that might be required to mitigate any risks from differences between SIT and production environments). The Programme is maintaining the assumption that no additional Qualification Testing execution will be required for SIT participants. 	Previous RAG	Amber (39 Risks)
			Current RAG	Yellow (38 Risks)

Risk ID	Risk Description	Risk Score Assessment																Current score movement since last PSG	Mitigation Plan													
		Critical				High				Medium				Low																		
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15			14	13	12	11	10	9	8	7	6	5	4	3	2
R331	There is risk that analogous estimating has been used to assess the likely duration of SIT testing using FSP as a benchmark, as well as the test cases/scenarios not being tied down. There is a high degree of uncertainty over the accurate estimating of SIT duration which may be longer or shorter																														Updated mitigation	<ol style="list-style-type: none"> As SIT scope and scenario coverage developed and approved by TMAG, estimates refined and validated To be assessed post test case creation (CIT and SIT Functional test cases authored and approved) Work with the Design team on a logical sequence of Test execution Estimates have been refreshed for SIT Functional (based on test cases that need to be run and number of PP's involved in SIT). Further changes are being refined on an ongoing basis as changes to the scenarios/test cases are finalised.
R532	There is a risk that SIT participants will need to execute additional Qualification Testing to qualify																														No change	<ol style="list-style-type: none"> Potentially require additional Qualification Testing for Metering Service Providers who are not existing MOps and for ADS providers who aren't current HHDS (e.g. protocol testing, VLP arrangements) MMHSP in discussion with Code Bodies to confirm and build their requirements into the SIT
R432	There is a risk that new Change Requests have a material impact on the baseline design																														No change	<ol style="list-style-type: none"> Manage Change Requests and understanding their impact on Design
R522	There is a risk that SIT volunteers may be late arriving into their CIT Interval																														No change	<ol style="list-style-type: none"> Design, Test and Delivery assurance FTIG (and PSG) monitoring of participants' delivery progress and managing of obstacles to readiness (inc. deep dives for those who are higher risk) Staggered PIT approach Regular PPC bilaterals with SIT volunteers CIT readiness criteria spreadsheet signed off by TMAG and will be monitored weekly by Test team
R567	There is a risk that a number of Supplier SIT Participants may withdraw from SIT if the scope of Qualification (and therefore SIT) continues to mandate the testing of all customer segments and metering variations. Qualification scope aligns to the roles in the MHHS Design																														No change	<ol style="list-style-type: none"> The scope of SIT is being driven by the scope of Qualification, which is the responsibility of Code Bodies, to ensure that there are no additional tests required between SIT & Qualification. Programme discussing issue with BSCCo, who have responsibility for setting the scope of Qualification BSCCo to discuss the scope of Qualification with BSC PAB Programme to monitor progress of scoping discussion Assumption A0207 raised to set scope of SIT to allow Suppliers not to execute UMS SIT test cases if they do not intend to serve UMS

Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 2: Commencing and completing Migration successfully

RAID (2 of 3)
Updated to 27/11/2023

Theme	Summary	Mitigation Approach Overview	RAG Status	
Commencing and completing Migration successfully	The theme explores the factors which may affect the Programme meeting M10 / M11 and completing Migration and how the Programme is planning to mitigate these to stop these risks from converting into issues	<ul style="list-style-type: none"> Some of the existing risk factors around M10 / M11 will be mitigated by the findings throughout SIT Testing, which will evaluate assumptions, highlight to the Programme the areas which require attention and allow the Programme enough time to make the changes necessary for M10 / M11 success The Migration Design, the Migration Cutover & Data Strategy, the Data Cleanse Plan, the Migration Thresholds Document and ongoing Code Drafting will provide Participants necessary materials to prepare for M10 / M11 	Previous RAG	Amber (32 Items)
			Current RAG	Yellow (38 Items)

		Key Risks																Current score movement since last PSG	Mitigation Plan														
Risk ID	Risk Description	Risk Score Assessment																															
		Critical				High				Medium				Low																			
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
R700	There is a risk that Suppliers and Agents do not complete Qualification in line with their delivery plans and this places pressure on the volumes that needs to be delivered over the remainder of the migration period																															New Item	<ol style="list-style-type: none"> Engagement with Suppliers and Agents to ensure they build a Qualification delivery plan that is achievable, and that they remain on track to deliver this plan. Increased flexibility from Code Bodies in wave qualification.
R536	There is a risk that the SCR on charging methodology does not provide sufficient time for MHHS to prepare for M11																															New Item	<ol style="list-style-type: none"> Work closely with ESO to resolve the issue and consider making changes to the CUSC to ensure that an appropriate charging methodology is in place for migration Work with Ofgem Network Charging Lead to ensure workaround is reflected in the Transmission Charging policy change Ensure Elexon (Helix) can deliver a P210 flow as required Ensure CR to amend P210 flow is raised and brought into the scope of the Programme so it delivers what is required
R718	There is a risk that there may not be enough DBT2 assurance in place before M10																															New Item	<ol style="list-style-type: none"> MHHS have presented some options to the IPA to provide a level of assurance Action with IPA to consider DBT2 assurance for Suppliers, LDSOs and ESO
R659	There is a risk that PPs can't migrate MPANs due to a technical/process issue																															No change	<ol style="list-style-type: none"> This risk will be reduced by Migration Test phase of SIT and Qualification Monitoring of PP progress during Migration for any issues
R677	There is a risk that performance testing of the Migration functionality within MPRS identifies an issue that cannot be resolved in time for SIT and non-SIT LDSO Non-Functional Testing																															Updated description	<ol style="list-style-type: none"> SCS planning to undertake testing in/by end of Jan 2024 to confirm that MPRS can comply with the planned Migration volumes allocated to DNOs Relaxation of the 60-minute SLA for LDSOs to process all migration messages during the migration period was approved 20-Nov-23 TMAG with the approval of the Migration Thresholds Document.

Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 3: Risks to Qualification success

RAID (3 of 3)
Updated to 27/11/2023

Theme	Summary	Mitigation Approach Overview	RAG Status	
Risks to Qualification Success	Code Bodies are accountable for Qualification for all relevant PPs. Industry participants have raised a risk that there has been a lack of clarity on the approach and plan to deliver Qualification for non-SIT LDSOs, Suppliers and Agents.	<ul style="list-style-type: none"> PSG presentation on high level Qualification roles and responsibilities from BSCCo with supporting plan for non-SIT LDSO Qualification Testing from MHHSP. December PSG to show supporting plan for Supplier and Agent Qualification Testing, based on material discussed with QWG 27th November. Ongoing collaboration between MHHSP and Code Bodies and industry to develop Qualification material through QWG 	Previous RAG	Amber (14 risks)
			Current RAG	Amber (17 risks)

		Key Risks																		Current score movement since last PSG	Mitigation Plan								
Risk/Issue ID	Risk Description	Risk Score Assessment																											
		Critical						High						Medium								Low							
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
R653	There is a risk that the Programme cannot mobilise test environments and test harnesses in time to support non-SIT LDSO Qualification Testing	[Red]						[Yellow]						[Green]						Decrease by 4 (Prob from 4 to 3)	<ol style="list-style-type: none"> Programme to draft non-SIT LDSO QT and Code Bodies to draft Supplier and Agent QT environment & test harness requirements by end Dec 2023 Engagement with Programme Sims & Ems team to prepare for IA v. requirements Discussions to be had with other impacted parties for environments (e.g. DIP, Helix) 								
R603	There is a risk that Code Bodies will not be ready in time to complete non-SIT LDSO Qualification	[Red]						[Yellow]						[Green]						Decrease by 5 (Prob from 4 to 3)	<ol style="list-style-type: none"> MHHS Programme supporting Code Bodies by taking responsibility for the preparation and execution of non-SIT LDSO Qualification Testing with material to be presented to QWG 14/11/23. There is now a clear plan to monitor delivery against. QAD management and governance to be defined by Code Bodies 								
R525	There is a risk that Suppliers with large portfolios of MPANs could be allocated to later qualification waves because of the 'first come first served' approach or drop out of SIT into later Qualification waves, which would not leave enough time to migrate a large portfolio before the M15 deadline	[Red]						[Yellow]						[Green]						No change	<ol style="list-style-type: none"> Legal advice from Elexon has been clear that the allocation of Programme Participants to waves cannot be influenced by portfolio size Any incentive regime for Migration will be a matter for Ofgem not the Programme Capacity within Migration plan is set to enable large suppliers in final waves to migrate in time, as discussed at TMAG 20/9 resulting in reduction of probability Qualification waves and associated processes presented by Code Bodies to QWG 27/11/23. There is increased flexibility built into wave approach. 								
R332	There is a risk that Suppliers may require maximum amount of time to complete their DBT, resulting in backlog in final waves of Qualification	[Red]						[Yellow]						[Green]						No change	<ol style="list-style-type: none"> RA3 Stats showing most PPs not declaring a date for later waves; Monitor intent to qualify Ongoing tracking of suppliers' delivery plans and progress through bilaterals Qualification waves and associated processes presented by Code Bodies to QWG 27/11/23. There is increased flexibility built into wave approach. 								
R509	There is a risk that the content of SIT and Qualification aren't aligned due to changes identified during the development of Qualification deliverables after the SIT deliverables are approved	[Red]						[Yellow]						[Green]						New Item	<ol style="list-style-type: none"> Programme to continue to work closely with Code Bodies through the development of SIT and Qualification deliverables to ensure alignment of scope 								
R695	There is a risk that Code Bodies will not be ready to complete Supplier and Agent Qualification in time for tranches (time)	[Red]						[Yellow]						[Green]						New Item	<ol style="list-style-type: none"> MHHSP, Elexon and RECCo agreed R&R at a high level in PSG presentation Code Bodies to progress preparation through QWG (Presentation eQWG 27/11) Additional resource being added at Elexon 								



Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Document Classification: Public

Key	
I	Initial Score
C	Current Score
T	Target Score

Change Request Status

Change Control
Updated to 27/11/2023

Ref.	Key Detail	Change Raiser(s)	Change Type	Latest Action	Approval Status	Current Stage in Change Control	Action <i>If approved</i>	Implementation date/milestone	Change Owner(s) <i>If approved</i>
CR028	EES and SDEP Requirements	Jonny Moore, RECCo	Full Impact Assessment	Approved by DAG (13/09/23)	Approved	Completed		IR5 (Oct-23)	Paul Pettitt, MHHS Programme
CR029	DIP LDSO Interface Processing	Rachael Prosser, NGED	Full Impact Assessment	Approved by DAG (13/09/23)	Approved	Completed		IR5 (Oct-23)	Sean Cooper & Richard Gwatkin, MHHS Programme
CR030	Introduction of Compressed Payloads into DIP Messages	Rob Golding, MHHS Programme	Full Impact Assessment	Approved by DAG (13/09/23)	Approved	Completed		IR5 (Oct-23)	Paul Pettitt, MHHS Programme
CR031	Amending Transition Design Milestone Description and Delivery Date	Andrew Margan, MHHS Programme	Housekeeping	Approved by DAG (13/09/23)	Approved	Completed		-	Andrew Margan, MHHS Programme
CR032	Change to Interface MHHS-IF-165 P0210 TUoS Reporting	Andrew Dudkowsky, National Grid ESO	Full Impact Assessment	Re-issued for Impact Assessment by DAG (08/11/23)	Open	Awaiting re-issue for Impact Assessment (expected to re-issue on 28/11/23)		TBC	Paul Pettitt and Lee Cox, MHHS Programme
CR033	Remove ELEX REP-005 and include LLF details as part of ISD catalogues	Rashmi Radhakrishnan, HELIX WP3	DIN	Issued to DIN Log by Change Board (24/10/23)	Issued to DIN Log	Issued to DIN Log	Implement change via DIN Log	-	Paul Pettitt, MHHS Programme
CR034	Delay to Elexon Level 3 validation response – NFR (1009)	Nigel Rees, Elexon	Full Impact Assessment	Impact Assessment window closed (23/11/23)	Open	Awaiting DAG approval decision		TBC	Paul Pettitt, MHHS Programme
CR035	Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates	Amy Clayton, MHHS Programme	Full Impact Assessment (Expedited)	Issued by PSG for Impact Assessment (response deadline 28/11/23)	Open	Awaiting PSG approval decision		Jan-23	Lewis Hall, MHHS Programme
CR036	Use of Clock Midnight for Appointments and Reads	Matt Hall, MHHS Programme	Full Impact Assessment (Expedited)	Issued by DAG for Impact Assessment (response deadline 01/12/23)	Open	Awaiting DAG approval decision		Jan-23	Paul Pettitt, MHHS Programme

On track per programme plan

Expected to meet programme plan if risk mitigation is successful

Unlikely to comply with programme plan

SIT Stage Statuses (as of 29-Nov-23)

Test Stage	RAG	Comment	
CIT	Yellow	<p><u>Overall</u></p> <p>Test execution commenced: 31-Oct</p> <p>Intervals 1 & 2 in formal testing</p> <ul style="list-style-type: none"> IFs and PUBs now being sent and Received by Helix & St Clements Secondary Routing impacting several tests. Programme aware complete Secondary Routing not delivered until IR5.1. Programme to ascertain delta and forecast test deferral <p>Test Approach (plus associated Test Data) Approach and Plans: Approved @TMAG 19-Jul</p> <p>Test Scenarios: Approved @ at eTMAG 30-Aug</p> <p>Test cases: Plan to deliver in 3 Batches agreed through Governance:</p> <ul style="list-style-type: none"> Batch 1 (CIT Interval 1&2): TMAG Approved 29-Sep – Approved Batch 2 (CIT Interval 3&4): TMAG Approved 06-Nov – Approved Batch 3 (CIT Interval 5&6): TMAG Approved 08-Dec – Moved to 20-Dec TMAG, On Track 	<p><u>Interval 1 – DIP</u></p> <p>PIT Execution – CIT Commenced 31-Oct</p> <p>DIP Onboarding + Connectivity Testing:</p> <p>Interval 1 – Complete</p> <p>Interval 2 – 50% complete, smoke testing for 1 Adaptor Service nearing completion</p> <p>Interval 3 – In Progress</p>
		<p><u>Interval 1 – Helix</u></p> <p>CIT Commenced 01-Nov</p> <p>IFs and PUBs now being sent a received</p>	
		<p><u>Interval 2 – St Clements</u></p> <p>CIT execution commenced 28-Nov via one Adaptor Provider</p> <p>Smoke testing with one Adaptor Service nearing completion</p>	
		<p><u>Interval 3-6</u></p> <p>Interval 3 – All PIT Documentation received. All PIT Assurance Reviews complete. Onboarding progressing</p> <p>Interval 4 – All PIT Documentation Received and under review. All Approach & Plan reviews complete. Onboarding commenced</p> <p>Interval 5 – All PIT Documentation Received and under review. All Approach & Plan reviews complete</p> <p>Interval 6 – All PIT Documentation Received and under review. All Approach & Plan reviews complete</p>	
Functional	Yellow	<p>Test execution commences: 11-Mar-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Approved @TMAG 16-Aug</p> <p>Test Scenarios and Test Cases, revised delivery approach SITWG agreed, also approved at TMAG on 23-Oct-23</p> <p>Test Scenarios and Test Cases – Themes 1-5 planned for Dec TMAG Approval, Themes 6,7&9 planned for Jan TMAG Approval, Settlement Tests planned for Feb TMAG Approval</p>	
Migration	Green	<p>Test execution commences: 10-Jun-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Industry Consultation & day Assurance Review concluded. Documents ready for Dec Governance Approvals (Dec TMAG)</p> <p>Test Scenarios & Test Cases: Delivery plans to be shared and agreed, forecast approval March 24</p> <p>Note – Migration Design complete and follows existing Business Processes with relevant deviations to enact migration. Migration Testing will therefore follow SIT Functional Testing with relevant deviations</p>	
Non-Functional	Green	<p>Test execution commences: 02-Sep-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Planned – Industry Consultation 25-Jan, TMAG Approval 20-Mar</p> <p>Test Scenarios & Test Cases: Delivery plans to be shared and agreed, forecast approval May 24</p> <p>Note – Non-Functional Requirements allocation across PIT and SIT to be socialized in September NFTWG.</p>	
Operational	Green	<p>Test execution commences: 07-Oct-24</p> <p>Test Approach (plus associated Test Data) Approach and Plans: Planned – Industry Consultation 21-Mar, TMAG Approval 15-May</p> <p>Test Scenarios & Test Cases: Delivery plans to be shared and agreed, forecast approval July 24</p>	

SIT – MVC Status (as of 29-Nov-23)

Ready

Expected to be ready

Expected to be ready if risk mitigation is successful

Unlikely to be ready

Core Capability Providers (CCPs)	CIT Status	Comment	SIT (F) Status	Comment
Elexon (Helix)	Int 1	CIT commenced 01-Nov IFs and PUBs being successfully sent and received with DIP		Helix are flagging risk around the scale of develop of development needed for IR5.1, particularly DAH and ability to complete development by SIT functional start. On-going dialogue with Helix to review options to meet SIT F timescales.
DIP	Int 1	IR2.1 PIT – completed with excellent stats. Final review of Test Completion and Work-Off Plan in progress Supporting CIT Interval 1 and Interval 2 testing Some Secondary Routing Defects being found. Programme aware Secondary Routing development not complete until IR5.1. Programme needs to ascertain what has been delivered to enable management of remaining CIT test scope		Readiness for SIT Functional on track
St Clements	Int 2	Interval 2 started		Readiness for SIT Functional (IR5) also on track at this point but continued little contingency – hence RAG continues as Amber
	Int 6	Sprints 3-5 on track for CIT Interval 6 albeit with little contingency		
RECCo	Int 6	DBT plans for EES are on track to be ready for CIT Interval 6 as planned		On track
DCC	N/A	No DCC participation in CIT.		MDR, CSS changes and capacity upgrades on track.
ElectraLink	N/A	No ElectraLink participation in CIT.		Delivery plan for the changes to the DTN Flows for SIT F agreed
LDP (SI)	All Ints	<u>T2-TE-0250 work-off plan – completed</u> CIT Test execution commenced <u>Other activities are progressing:</u> CIT Test cases - 1st batch (intervals 1 & 2) and 2nd batch (intervals 3 & 4) approved , 3rd batch (intervals 5 & 6) on track for 20 Dec Approval Data – on track regarding augmentation.		Approach and plan approved. Test scenarios and phased test cases approach & new timeline agreed at TMAG 23-Oct DIP simulators uplifted for IR3-5.1 DINs 3 Nov 23

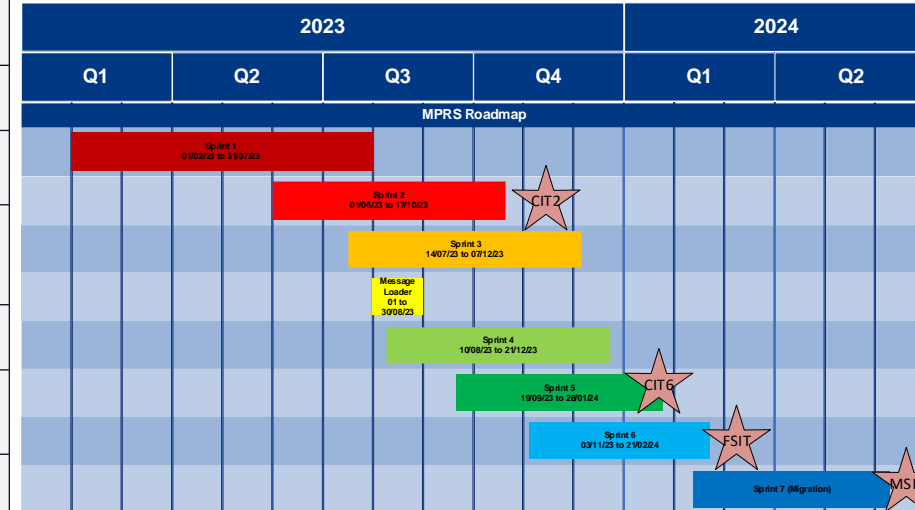
SIT Participants Constituency	Number of PPs confirmed for SIT (FTIG attendees)	Market Roles	Number of Market Roles required for SIT MVC	Number of Market Roles confirmed for SIT	Names of Participants (RAG – Green = confirmed, Black = TBC)
Supplier / Independent Agent	17	Advanced Data Services	2	10	Callisto, Energy Assets ,IMServ, Itron, Kraken Data Services, npower Business Solutions, Procode, SMS, Stark, TMA
		Smart Data Services	2	8	Callisto, Energy Assets, IMServ, Kraken Data Services, Procode, SMS, Stark, TMA
		Metering Services Advanced	2	11	British Gas, Callisto, EdF, Energy Assets, E.ON UK Energy Solutions, IMServ, npower Business Solutions, Octopus Energy Services, SMS, Stark, Utilita
		Metering Services Smart	2	11	British Gas, Callisto, EdF, Energy Assets, E.ON UK Energy Solutions, IMServ, Octopus Energy Services, OVO, SMS, Stark, Utilita
		UMSDS	2	2	Power Data Associates, Tym Huckin Ltd
		HHDC	1	1	Callisto
		HHMOp	1	2	Callisto, npower Business Solutions
		NHHDC	1	1	Callisto
		NHHMOp	1	2	Callisto, E.ON UK Energy Solutions
Large, Medium, Small, I&C Supplier	8	Suppliers	2	8	British Gas, E, Edgware, E.ON Next, Octopus, Rebel Energy, Unify Energy, Utilita
DNO, iDNO, LDSO	2	Network Operations	1	2	BUUK, SSEN
		UMSO	1	2	BUUK, SSEN
Managed Service Providers	8		n/a	n/a	C&C, ENSEK., ESG, Kraken, SeaGlass, Utiliteam, Procode, Wheatley
National Grid (ESO)	1		1	1	National Grid (ESO)

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress this Month: <ul style="list-style-type: none"> Preparation for start of CIT interval 2 Commenced CIT interval 2 execution Sprint 4 code received Completed Data Augmentation load into BUUK Completed Data Augmentation load into SSEN CIT Readiness report submitted 	Progress expected in the coming month: <ul style="list-style-type: none"> Commence testing of Sprint 4 Commence testing of Sprint 5 Complete CIT interval 2 testing activity Submit PIT test scenarios for CIT interval 6 Continue working DIs into MPRS design
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
MPRS ready for start of CIT interval 2	06-11-23	09-11-23
MPRS ready for start of CIT interval 6	22-01-24	22-01-24
MPRS ready for start of functional SIT	14-02-24	14-02-24

Risk or Issue & RAG	Mitigating or resolving action required	Date to be resolved	Action owner
STCR18 - The programme plan is challenging and SCS has been consistent in its feedback to the programme. There is insufficient time to complete the testing of all functionality to the normal SCS quality standards to meet the entry points for CIT and functional SIT	St Clements is focused on delivering the functionality that is required, for when it is required by concentrating on the testing required to meet the programme timelines. 'Full' testing will be completed later in the programme.	Q1 2024	St Clements
STCR14 - There is a risk that BAU divert resource from MHHS programme (such as FS changes)	Ongoing Faster Switching issues diverting resource from MHHS activities to resolving BAU issues. Forced to tolerate and manage The Programme to recognise that BAU may be higher priority than MHHS	Ongoing	St Clements
STCR15 - There is a risk that programme governance / engagement diverts resource from delivery activities	Restricting SCS participation in programme meetings will help to mitigate. We will look to meet programme assurance/documentation requirements but programme to consider minimum required. Focus is on MPRS functional delivery	01 October 2024	St Clements
STCR23 - With Programme artefacts being delivered late there is a risk that there is insufficient time to review/develop MPRS without impacting delivery timescales	Programme to consider staggering delivery of Programme artefacts requiring review. Artefacts need to be delivered on time with sufficient time allowed to review For example, with the late delivery of SIT test cases, the MPRS team does not have the capacity to dedicate time to review activity without impacting delivery and testing activities	Q4 2023	Programme
STCR35 - There is a risk that there are no registration service reports defined within the MHHS design and changes/new reports will be required.	Contact with both Elexon and Ofgem. Information on the existing MPRS mandatory reports forwarded. Any MPRS report development required can only take place after the migration code has been delivered if MPRS delivery into programme test phases is to be unaffected.	31 December 2023	Programme
STCR44 - There is a risk that PUB-040 (Annual Consumption) in MPRS will not be addressed. If it is not required in MPRS there will be significant benefits for the MPRS development and DNOs operationally	With programme to identify suitable alternative	15 October 2023	Programme
STCR45 - With the functional SIT testing requirements so far undefined there is a risk that there is a misalignment between programme and St Clements expectations	The programme has not provided any guidance as to the experience to be expected for executing functional SIT. Suitable levels of resource may not be available to support SIT Functional.	15 October 2023	Programme
Assumption & RAG	Action required to remove assumption	Date to be resolved	Action Owner
MPRS high level plan broadly remains the same following detailed IA	Detailed IAs for later sprints to be completed	Through to last sprint	SCS
Scope of MPRS development does not extend	Scope change (e.g. data cut/data cleanse/CRs) to impact milestones. Prevent scope change and consider delaying when functionality is required for testing	28 February 2024	Programme
Programme governance/assurance does not impact MPRS delivery activities	Light touch and targeted approach	1 October 2023	Programme
Dependency & RAG	Managing action required	Date to be resolved	Action Owner
Dependency on Programme to confirm decisions on above	Prompt responses and decisions required		



RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress last month:
	REC
	<ul style="list-style-type: none"> •R0044 Systems Integrated testing completed •R0097 has been approved & will be implemented by ERDA •R0093 – discussions with RECCo and REC Technical Services on R0093 approach
	SEC
	<ul style="list-style-type: none"> •MP162 (MDR Role) Systems Integrated testing completed end of October, UIT Prep is in flight, on track for Dec start
Capacity	
<ul style="list-style-type: none"> •MHHS Capacity uplift commercial negotiations are in progress to ensure value for money capability is provided. Planning due to completed by Jan24, with the aim to deliver in 2024. 	
New Requirements	
<ul style="list-style-type: none"> • Final Assumption - Defect Management Assumption • Priority of delivery agreed & commercial arrangements aligned • UIT-B Environment Connectivity Implementation Planning Complete & Scheduled 	

Progress expected in the coming month:
<ul style="list-style-type: none"> • REC - Complete R0044 SIT testing, R0097, R0093 to be discussed • SEC - Initiate MP162 UIT testing • Capacity – DCC working on implementing change required to ensure sufficient capacity for MHHS Migration • Implementation of UIT-B Connectivity changes in preparation for E2E SIT Testing • Baselined plan for implementation of Test Data inputs & SIT Preparation • R0093 re-planning • Board Paper Approval expected in Dec23 for DCC Costs for New Requirements for SIT testing support, following which Budget will go to from Amber to Green status. • Risks are being proactively managed with all the stakeholders.

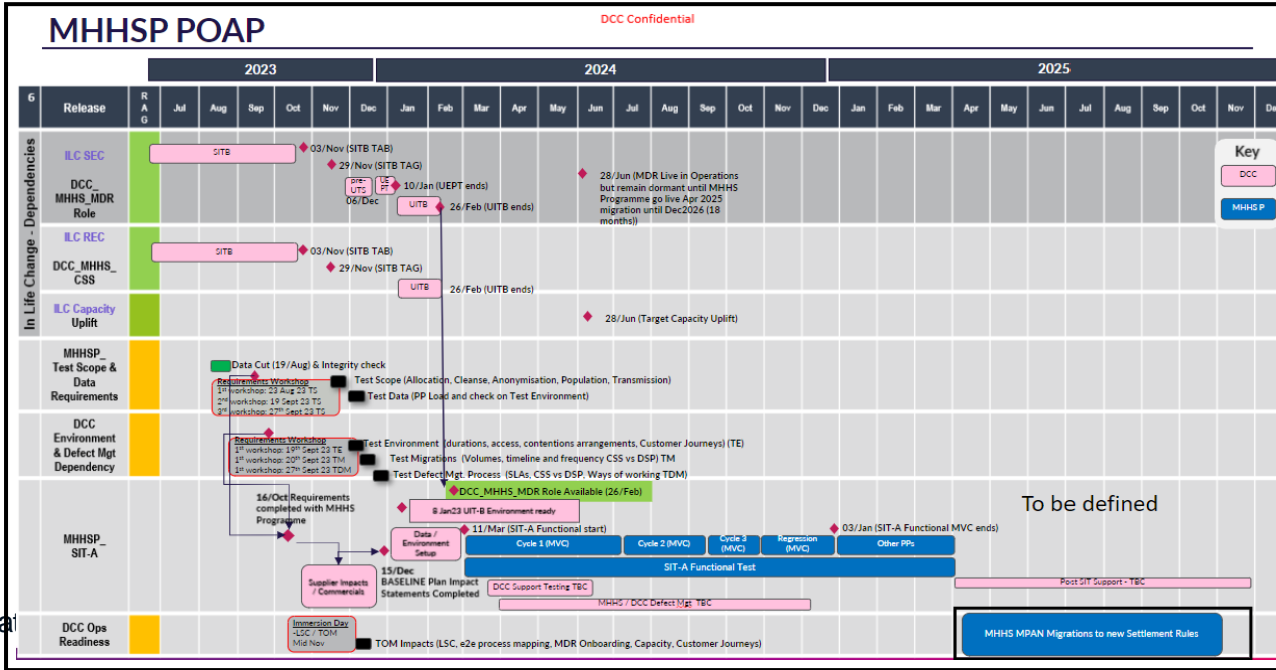
Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Ofgem approval	25-10-22	28-11-22
MP162 Go-LIVE	27-06-24	27-06-24
R0044	27-06-24	27-06-24
Capacity Uplift	June 24/25	June 24/25
R0093	2025	April 2025

Decisions required	From whom?	By when?
None	n/a	n/a

Top Risks and or Issues (See detail on page 2)
R0093 (CR4990) – agreement with RECCO on review on sequence to deliver R0093

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
Assumed Defect Levels in E2E SIT	<ul style="list-style-type: none"> • MHHS to confirm the assumption of the Defect Failure Rate per cycle 	Mid Nov '23	DCC/MHHS

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Awaiting details around the meter sets to be used in SIT Functional Testing	Call to agree MPAN's to be used for E2E Testing and data cut provision for SIT	29 Nov '23	MHHS
Clarification on proposed changes to SIT Functional Test Cases & Scenarios, following deep dive sessions	MHHS to provide review documents, discuss comments raised in deep dive sessions, and publicise any resulting changes, specifically relating to DSP involvement	28 Nov '23	MHHS



Change requests supporting MHHS	Descriptions	Completion date	Action owner	Status
NEW PR7788 (MHHS SIT Preparation – CSS-DSP Connectivity)	Work required to re-configure both CSS and DSP components in UIT-B to connect to each other rather than the simulators.	Dec '23	DCC/Service Providers	SoW in signing
NEW PR7806, PR7822, PR7813 (MHHS Test Data Upload)	Define and set up SIT data for CSS & DSP as well as MPANs for meter sets in end-to-end testing with DSP	Jan '24	DCC/Service Providers	SoW in progress
PR7809 SIT Support (DCC as Participant) (Combined with PR7772)	Provision of support for SIT Testing to provide required evidence of DSP/CSS participation & Change request to support MHHS Programme Defect Management requirements (V2).	2024/2025	DCC/Service Providers	Open
IN PROGRESS PR7771 (For Data Cleanse)	Change request to support the Data Cleansing requirements as specified by Elexon to support the Migration activities planned for 2025	2024/2025	DCC/Service Providers/MHHSP	Open
IN PROGRESS: PR7760 (MHHS Programme Engagement)	To address the definition of the new requirements for DCC Service Providers to allow them to estimate the duration/costs to support – UPDATED with Support Requirements for ongoing programme delivery		DCC/Service Providers	Open
IN PROGRESS: CR4813 (DCC CR that supports the SEC Modification MP162)	Creation of the new MDR role within the DSP systems and progressed by DCC and its Service Providers through Design, Design Assurance, Build, PIT, DCC SIT, User End Processing Testing (UEPT) and Testing Participant User Integration testing	09/02/24	DCC/Service Providers	Open
IN PROGRESS: R0044 (CSS to DSP Interface changes)	Updating of existing interface with additional MDR data fields to support the new role and allow agent appointments to be made and support the change of supplier/agent Industry process. This will be testing across SIT/UIT.	09/02/24	DCC/Service Providers	Open
IN PROGRESS: CR4879 (Capacity)	Infrastructure and Capacity uplift to support the increased network traffic modelled to allow the MDR Service Requests to be processed within SLA and ensure the Service to End Users is maintained	2024/2025	DCC/Service Providers	Open
IN PROGRESS: R0097 (Consequential change for CSS MDR appointments)	ERDS change asking them to make changes at their end to be ready to use the new 'tick box' when they want a message confirmation.	2025	RECCo	Closed – Incorporated in R0044
IN PROGRESS: R0093 (Uplift to CSS Max demand volumes during MHHS migration period)	Ensuring there is sufficient capacity across the CSS systems to support the increase in Service Requests pertaining to the new MDR role. Currently with RECCo for final clarification of scope.	2025	RECCo	Open

MHHS Changes to be Raised / Completed Changes (DCC)

Core capability provider
DCC

Change requests supporting MHHS	Descriptions	Completion date	Action owner	Status
PRxxxx DSP Migration Capacity	Any additional capacity required to cope with peak-of-peak migration threshold	Jan '24	DCC/Service Providers	To Be Raised
PRxxxx DCC Operational Support for Migration	Potential Hypercare during early phase (c. 3 months) of migration to ensure success	Jan '24	DCC/Service Providers	To Be Raised
COMPLETED: PR7742 (DCC PR that supports the Data Backup requirement)	Data backup and retention of both CSS (Faster Switching) and DSP (SMETS) data to support the Elexon SIT Functional testing stage	19/08/23	DCC/Service Providers	Complete

MHHS Top Risks (DCC)

Core capability provider
DCC

Ref.	Risk	Probability	Mitigation	Owner	Area
1	There is contention in the use of DCC UIT-B Test Environment for MHHS Programme Testing.	Low	Segregate MHHS Programme testing from other UIT-B testing through allocation of MPANs.	DCC	Environment
2	'Peak-of-peak' migration volume occurs when DCC hypercare has been stood down.	Low	Request the MHHS Programme to attempt to include a 'peak-of-peak' migration day during the 3 months of hypercare.	MHHS Programme	Migrations
3	Defects raised against DCC systems in SIT prior to June 2024 are not resolved in timescales requested by MHHS Programme.	Low	Reasonable Endeavours basis for Defect Management agreed with the MHHS Programme. Detailed processes to be defined.	MHHS / DCC Programme	Defect Management
4	Defects raised against DCC systems post June 2024 will be handled through Production governance which may not be fast enough for MHHS Programme.	Low	Majority of SIT Functional Testing takes place in Cycle 1 which completes early July 2024. Any defects remaining after standard PIT, SIT, Pre-UIT and UIT testing should arise prior to release into Production.	MHHS / DCC Programme	Defect Management
5	CSS volume uplifts need to be performance tested based on accurate Migration Plan to allow DCC to maintain Service Level agreements	Medium	Re-sequence R0093 REC Change to allow that performance testing to be included and reflect that approach in the code itself	DCC / RECCo	Environments/ Infrastructure
6	Slower engagement from MHHS Programme Testing Team delays preparation for SIT	Medium	Priority call on key resource agreed with MHHSP 21/11	MHHS Programme	SIT Func Testing
7	MPANs chosen for SIT Migration Testing are not included in the PR7822 load of 10,000 MPANs, resulting in the need to perform another CSS test data load and, thus, incurring additional cost to the industry	Medium	MHHS Testing Team to either confirm that the MPANs to be used in SIT Migration Testing will be taken from the PR7822 10,000	MHHS Programme	SIT Migr Testing

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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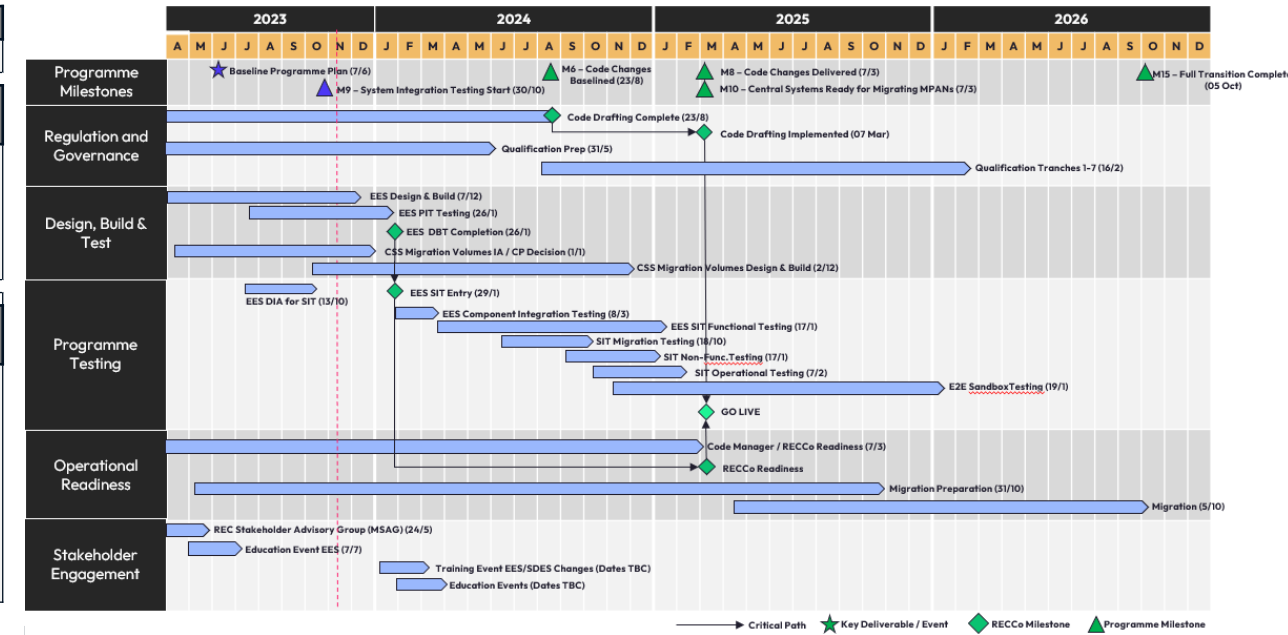
Status & Outlook	Progress last month: <ul style="list-style-type: none"> EES build & test continues according to plan. EES Functional PIT of core build complete with a small number of work-off items. EES Ancillary Design Complete. Encouraging progress on non-SIT LDSO Qualification high level plan, with review and agreement from PSG and LDSOs. Significant progress also made on non-SIT Supplier and Agent high-level plan, with industry review taking place at eQWG on 27 Nov. Path to green RAG status expected through continued lower-level planning. Code Drafting on track. Governance/Qualification, Interface/Data, and Migration Code Drafting – CCAG Approval 	Progress expected in the coming month: <ul style="list-style-type: none"> EES Ancillary Build complete Finalise qualification testing roles, responsibilities and assumptions with Elexon and Programme through lower-level planning and RASCI December QWG review of template for Pre-Qualification Submission for non-SIT Suppliers and Agents. Publish updated Placing Reliance Template for non-SIT Parties.
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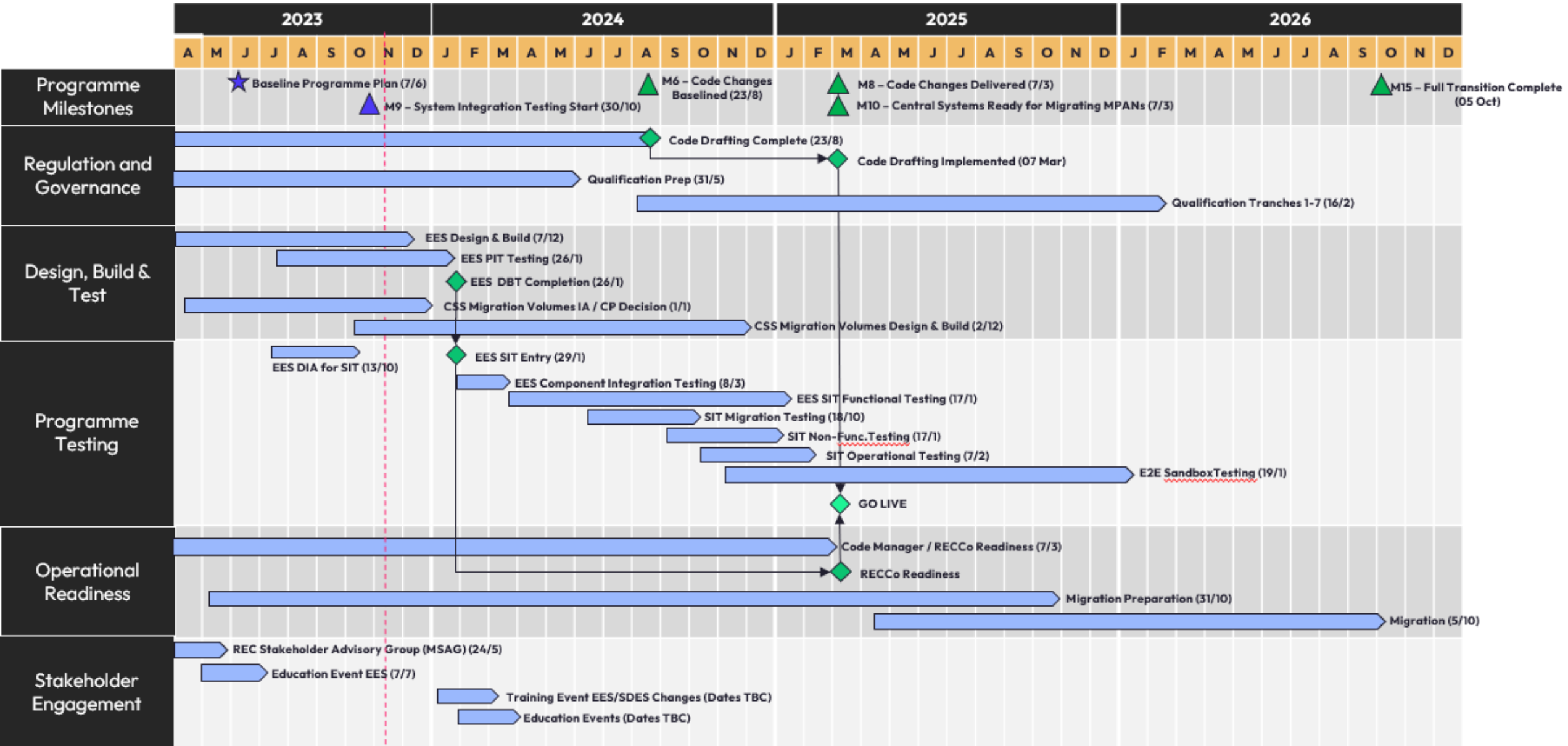
Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Registration Code Drafting	23/08/2023	
Qualification Assessment Doc v0.1 published	29/11/2023	March 24
EES Core Build Complete	04/08/2023	
EES Ancillary Design Complete	05/09/2023	
EES Ancillary Build Complete	26/10/2023	7/12/2023
Qualification Approach & Plan v0.2 published	29/11/2023	March 24
Gov/Qual, Interface/Data, Migration Code Drafting – CCAG Approval	13/11/2023	

Decisions required	From whom?	By when?
None		

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Programme does not provide expected / required UIT environment to support Qualification Testing	Ongoing discussion with Programme and Elexon to confirm provision of test environment and test data to support Qualification.	Dec '23	Andrew Wallace

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Programme SIT Artefacts for provision of equivalent Qualification documents, providing clarity on roles & responsibilities and confirming any additional qualification requirements that Code Bodies need to undertake for SIT parties.	Programme recently pushed back date for finalising SIT Functional Test Scenarios/Cases. RECCo requesting early sight of these and RTTM. Documenting risk for Qualification if further delays including SIT Migration, NF and Operational.	Dec '23	Andrew Wallace





2023 / 24

Oct Nov Dec Jan Feb Mar Apr May Jun July Aug Sep

Programme Milestones

- M9 – System Integration Testing Start (30 Oct)

Regs/Gov Code Drafting

- Governance & Qualification (13/11)
- Migration (13/11)
- Interface / Data Specification (24/1)
- Transition Text (24/1)
- Final Code Drafting - Mop-up (13/5)
- Final Code Review (23/8)

Regs/Gov Qualification

- Qualification Approach & Plan (Dates TBC)
- Qualification Assessment Criteria Outline (27/2)
- Qualification Execution Requirements CR (27/10)
- Non-SIT LDSO Test Preparation (Dates TBC)

Design, Build & Test

- Design Complete
- EES Design / Build (Ancillary) (7/12)
- EES PIT Execution (Core) (6/12)
- EES PIT Execution (Ancillary) (26/1)
- EES DBT Completion (26/1)
- CSS – CM Assessment / CP Decision (1/1)
- CSS Design & Build (2/12)

Programme Testing

- SIT A Connectivity Testing / Data Load (5/1)
- EES CIT Entry (29/1)
- EES CIT Exit (8/3)

Operational Readiness

- Performance Assurance CAT 2 (PARC) - (31/1/25)
- Performance Assurance CAT 3 (9/9)
- Qualification & Testing CAT 3 (11/6)

Stakeholder Engagement

- Training Event – EES / SDES Changes (Dates TBC)
- Education Event – Qualification Preparation (Dates TBC)
- Education Event – Completed Code Drafting (Dates TBC)
- Education Event – Internal Code Manager Training (Dates TBC)

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress last month: <u>CIT Support</u> <ul style="list-style-type: none"> CIT Interval 1: Continuing to support Helix and Expleo with testing and responding to queries from SI test team CIT Interval 2: Continuing to support interval 2 Market Participants with initial testing, defect triage and remediation CIT Interval 3: support provided for onboarding and readiness activities Continued support with Data Load by Interval <u>Change Backlog</u> <ul style="list-style-type: none"> Reviewed current delivery and change backlog prioritization with SRO Further progress made on Inspect testing Specific discussion on MPAN Addressing Specific review of progress with onboarding Delivered A0 block Obfuscation into SIT Progressed discussions on Reporting Progressed design for Interface 15/16 	Progress expected in the coming month: CIT Support <ul style="list-style-type: none"> Continue to monitor progress with Interval 1 & 2 testing Review progress for CIT with interval 3 Monitor progress with onboarding and readiness for Interval 4 Defect triage and remediation as part of CIT support Further releases into SIT where necessary Data Load for CIT Intervals 4 & 5 <u>Change Backlog:</u> <ul style="list-style-type: none"> Review technical roadmap for Performance Testing Progress analysis and preparations for delivery of Interim Release 5.1 Review final version of MPAN Addressing Finalize any design work for Interface 15/16 Further progress on the work for Portal Changes Ongoing work for implementation of new reporting requirements including POC infrastructure
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Contract Signature	21/11/22	20/01/23
DIP 1 – Initialisation	30/01/23	24/03/23
DIP 2 – Design	28/04/23	28/04/23
DIP 3 – Build	11/08/23	11/08/23
DIP 4 – Test (PIT)	27/10/23	27/10/23
M9 – SIT start	01/11/23	30/10/23

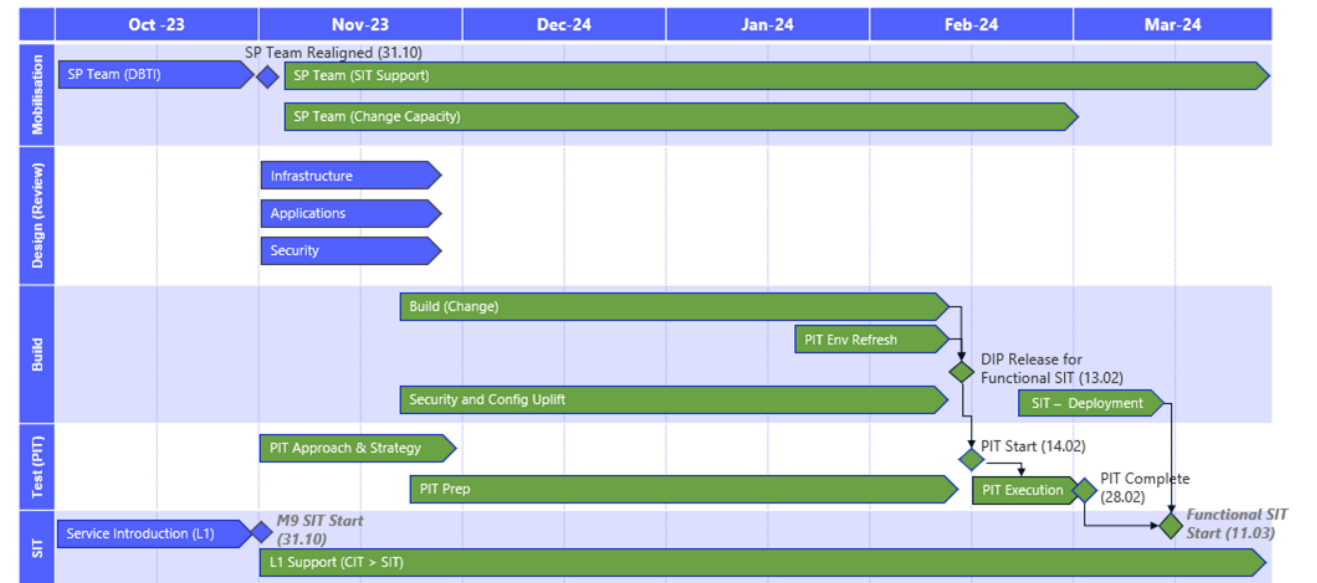
Decisions required	From whom?	By when?
None	n/a	n/a

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Change Delivery - capacity for change delivery impacted by analysis of 'defects' reported by CIT Intervals 1 & 2 Participants	Proceeding at risk with DIP SP solution design. DIP SP to complete impact assessment. Changes will be delivered ahead of functional SIT	01/12/2023	Richard Gwatkin (Paul Daniels)
Design and runtime risk arising from MPAN state rules based on TOM Functional Architecture	Review triage approach (with SRO, Programme), isolate capacity for change delivery. Further review following resolution of initial blockers to determine need for additional capacity	01/12/2023	Rob Golding (Piotr Penar)

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Industry-led, Elexon facilitated			

DIP Readiness for Functional SIT – POAP

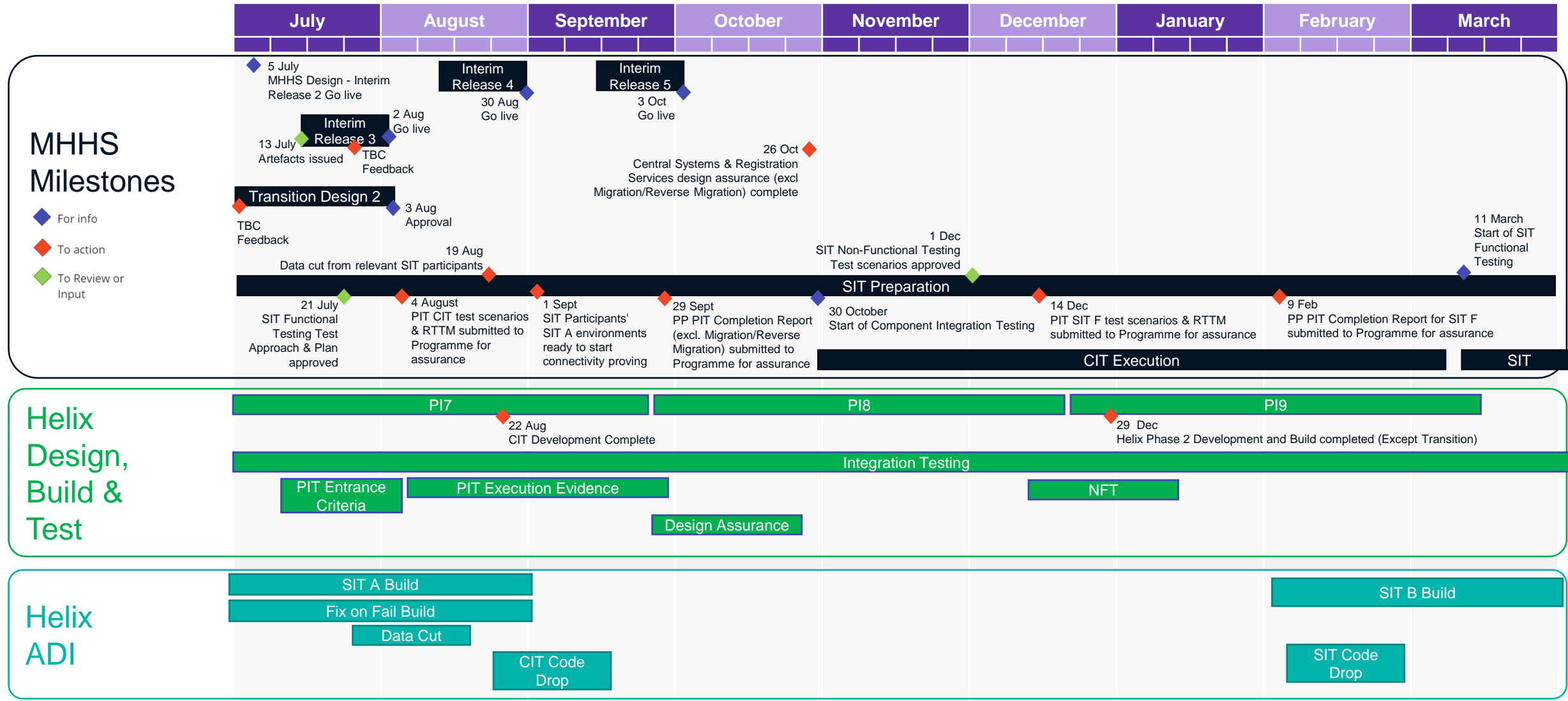


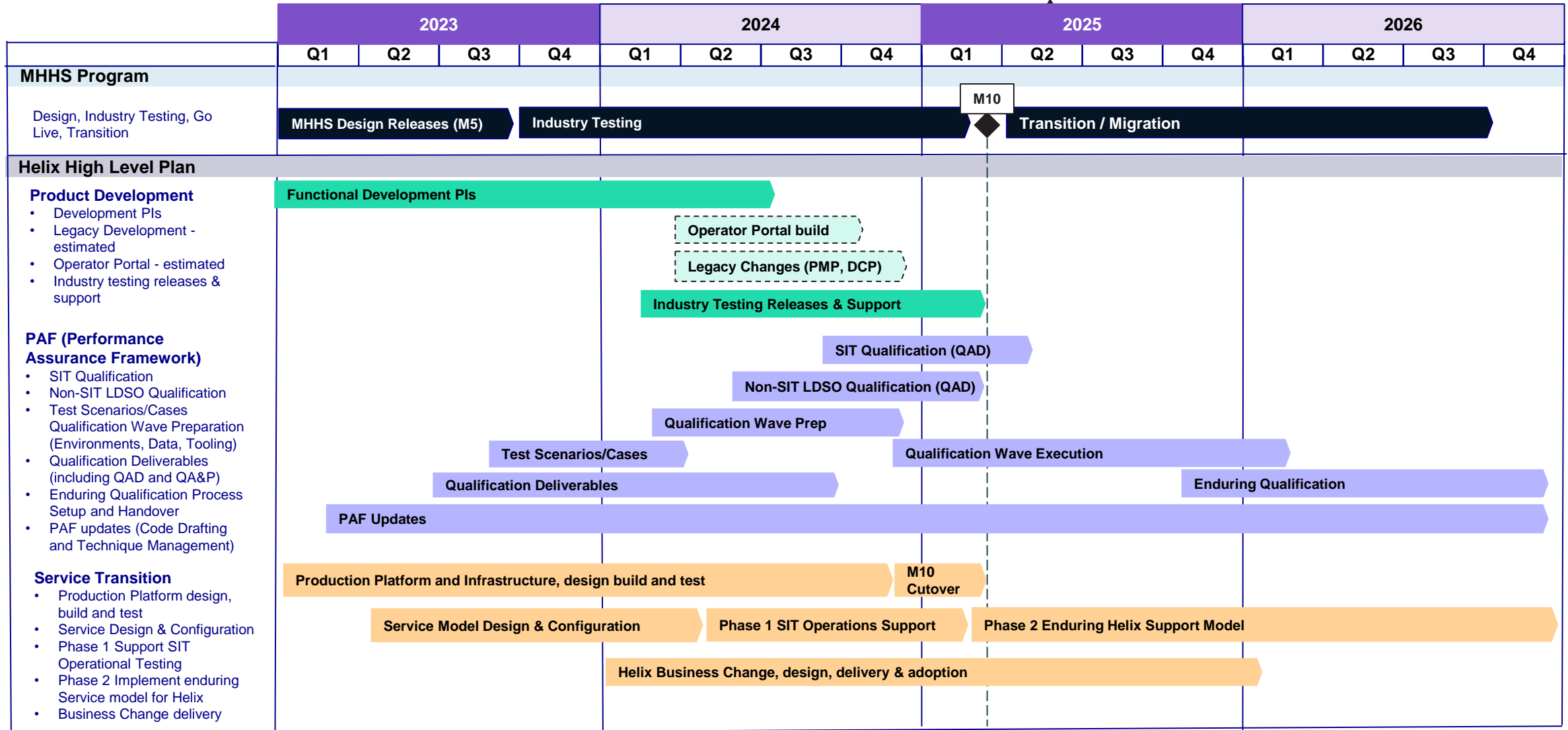
RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers	
Status & Outlook	Progress last month: <ul style="list-style-type: none"> Conducted a formal review of Helix Programme across all key deliverables, partly as a result of ongoing concern around Programme cost Programme Director (John Abbott) and replacement Programme Manager (Rob McPherson) appointed CIT Testing commenced but currently blocked with resolution timeframe not yet clear Continued work in PI8 with Code build for SIT scheduled to be released end of December. Qualification – Plan for Non-SIT Suppliers and Agents was presented at Extraordinary Qualification Working Group (EQWG)* Continued support and transition planning through Helix Service Transition working group. 		Progress expected in the coming month: <ul style="list-style-type: none"> Helix Leadership team restructure, additional resource to be added to strengthen Programme team. CIT issues (in part DIP issues) require urgent resolution for CIT testing to resume. Impact on delivery plan and cost due to CIT delays to be assessed alongside impact of additional change e.g. CR36 Planning for PI9 across work packages 2-4 to be completed, WP1 planning date to be confirmed. Complete the test strategy & script writing for qualification. Continue to drive operational Service transition and implementation Progress further planning of key delivery areas across end-to-end testing, code change, transition and migration. 		Party Milestones & Deliverables			Plan Date	Forecast date & RAG
	Test scenarios submitted			4/08/23	Complete				
	CIT development complete			22/08/22	Complete				
	SIT A - HXT2 Environments ready for connectivity testing			1/09/23	Complete				
	Delivery phase ends (DBT End) – for CIT IR2.			29/09/23	Complete				
	Industry phase starts (CIT Starts)			30/10/23	Complete				
	Code drop for SIT based on IR5.1. IR 4 can be delivered.			22/12/23	In Progress				
	Target second code release for SIT			30/01/24	Not started				
	PIT completion report of SIT			9/02/24	Not started				
	Commence SIT Functional start			11/03/24	Not started				
Industry phase ends (SIT End)			07/02/25	Not started					

RAID and RAG	Type	Mitigating or resolving action required	Date to be resolved/updated
If the further changes impact on the scope of Helix, they may impact on SIT preparation and will drive further cost into the programme	Risk	Recognition that Helix has a materially complete code base with due consideration given to avoidance of refactoring of this code base within future change requests	Ongoing
CIT testing currently blocked by several issues with the DIP sending inbound messages to Helix.	Issue	Defects have been raised by MHHS team, assigned to Avanade with fixes being progressed - Currently no resolution timeframe for testing to resume with this functionality.	Ongoing
Interface changes released in IR 5.1 will impact on Helix delivery backlog and cost	Issue	The interface changes released in IR 5.1 have increased the amount of work required from Helix, this is being reviewed, shaped and placed into the backlog with a view to accommodating the extra effort.	30/11/23
As Helix have yet to test against the DIP there is a possibility that changes need to occur to either the DIP or Helix to resolve defects that may arise during this testing.	Risk	A number of differences became apparent prior to the testing with the DIP which meant changes needed to be implemented, AO blocker, security signature, lowercase only in URL, these items are now fixed with the deployment into the SIT test environment.	15/11/23
If the transition plans for go-live of Helix and transition of MHHS are not advanced urgently there is a risk that this phase will not run smoothly	Risk	Increased focus and programme leadership on Helix go-live and general transition readiness is being prioritised within the leadership restructure within Helix	21/12/23
There is a risk that all aspects of PAF an Qualification readiness are not completed to plan	Risk	Helix has dedicated workstream leadership in place for this strand of work, is finalising recruitment and process mapping for the approach and will continue to prioritise and report on progress with this deliverable	30/09/23
With the release of IR5.1 there are items within the Helix backlog that cannot be delivered in time for the start of PIT for SIT functional testing.	Risk	Working closely with the testing team to align delivery to establish if an additional code drop can be accommodated.	22/12/23
It is assumed the SLA's provided by Helix for defect fixing during testing will be accepted.	Assumption	This is still being discussed with the MHHSP test team. Additional scenarios have been provided and a release schedule has been proposed by MHHSP.	30/11/23

Path to Functional Systems Integration Testing (SIT)

Core capability provider
Helix





RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
Status Update	<p>ElectraLink updates for November PSG:</p> <ul style="list-style-type: none"> The MHHS programme has identified the need for a set of data flow changes and additions for SIT. ElectraLink have engaged with the Programme and REC Technology Services and agreed next steps for SIT Continued collaboration with MHHS Programme and teams engaged via participating in working groups such as SITWG, FITG, S&T, DAG, DWG and fortnightly sessions with the programme and Webinars. 						<p>Milestones and Deliverables:</p> <ul style="list-style-type: none"> No milestone or specific deliverables have been identified. There are no specific deliverables to be reported. 	

Decisions required	From whom?	By when?
Testing flags to be used by the Programme to be finalised	Programme and ElectraLink	DTN testing start (tbc @ Dec SITWG)

RAID	Mitigating or resolving action required	Date for action to be resolved	Action owner

Dependencies	Managing action required	Date for action to be resolved	Action Owner
The MHHS Programme requires a new data flows, and there is a dependency on REC to create the DTC for SIT	<p>REC to update the Catalogue via existing Industry Processes.</p> <p>EL are working with the Programme to understand how we can support.</p>	Jan-24	MHHS Programme

RAGs	Overall	Approach	Plan	Resources	Budget	Risk																					
Status & Outlook	Activities reported as progressed in November:- SSEN (as MVC for SIT) <ul style="list-style-type: none"> DIP Onboarding completed as far as possible for SSEN. Dependency on ElectraLink to complete onboarding to close out final steps of process. ADQM 4.0 for CIT successfully installed & PIT Testing completed. Proposed migration volumes reviewed & approved internally. Caveat = awaiting more evidence from testing phases. Genera DNO Comments <ul style="list-style-type: none"> DBT1 – Systems development progressed. Development - Configuration/ Testing with DIP Simulator. Progressed on Data cleanse activities as per plan. Qualification Testing scope / Placing Reliance Form clarifications. Impact analysis of Programme/ industry changes – CR034; CR035, R070, CP1589, Programme artefacts reviews: SIT Migration plan, SIT Test scenarios/ cases (themes 3-9), Code of Connection changes. Attended various Programme meeting with MHHS, St-Clements, Adapter DNO forum. Looked into the testing requirements for Durabill 		Activities reported as expected to progress December: SSEN (as MVC for SIT) <ul style="list-style-type: none"> PIT Test Completion Reports for CIT submitted for Networks Ops & UMISO. Successfully SENT messages to the DIP via the EL Adapter. Ongoing issues with RECEIPT of messages from the DIP. Issue is with Avana to resolve. ADQM & LOCUS for CIT releases successfully installed. Continuing bi-laterals with other DNO's re Placing Reliance Progress use of MPRS API code in ADQM development for SIT Functional General DNO Comments <ul style="list-style-type: none"> DBT1 – Continue Systems Build, Internal Testing/ PIT Test scenario preparation & review. Configure/ Test DIP Simulator for development/ PIT (without adapter). Progress on Data Cleanse activities as per plan(DEL1181). Placing Reliance document updates. Continue to attend various MHHS Programme meetings/ working groups. Impact analysis of industry change requests related to MHHS. Programme artefacts reviews – PIT guidance for Non-Functional Testing, Qualification Testing Approach & Plan 		DNO Key Milestones (in Round 3 plan)	Round 3 date & confidence level / RAG	Reasons for confidence levels																				
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Overall	Approach	Plan	Resources	Budget	Risk					
Overall Activities reported as progressed in November: <ul style="list-style-type: none"> Progressed IDNO SIT preparation. Progressed IDNO SIT and Non-SIT Qualification requirements by liaising with Code Bodies and the Programme. Monitored progress of LDSO DINs and CRs. Responded to Tranche 4 code drafting consultation. Continued Data Preparation requirements activity. Engaged with Programme and Code Bodies regarding Placing Reliance Statement. Completed DIP onboarding requirements. Progressed changes to DTN Gatekeeper systems. Continued bilaterals with PMO. Review RA3 results and include in Impacts and Risks internally (to be released end Nov) IDNO reps agreed for new TMAG groups. Last Mile to attend Migration & Cutover Advisory Group (MCAG) 	Approach Activities reported as expected to progress in December: <ul style="list-style-type: none"> Ongoing SIT activity.. Continued review of draft Code changes. Continued monitoring of LDSO DINs progress and review CRs. Continue to undertake data cleanse and preparation requirements. Pursue Qualification requirement clarification. Continue to identify Programme impacts to current BAU processes. Continue to progress DTN Gatekeeper environment. Develop QAD. Develop Non-SIT Placing Reliance submissions. 	Plan Decisions to be made by IDNOs Impacts of no decision Decision by when? Decisions required from the programme Impact of no decision Decision by when? SIT and Non-SIT participant Qualification requirements. Could lead to delays in the qualification process and result in additional testing outside of the relevant SIT window. ASAP Escalations (priority items for attention and support from the programme) Action by when? Clarity and resolution on the above ASAP Risks or Issues Impacts Opportunities to resolve and deliver as soon as possible There is a risk that Qualification requirements might challenge delivery. Additional qualification requirements may threaten other areas of delivery. Code Bodies identify what requirements there are for Qualification. Continued changes to Design IDNOs unable to complete build Continued engagement with Programme to determine design Migration volumes being unmanageable Failed migrated MPANs Managed migration. For example, migration profiled over each 24-hour period. Based on recent data augmentation activity taking longer than the Programme anticipated, there is a risk that future such activity might impact Programme delivery timelines. This could impact achieving subsequent testing and general Programme milestones. Consider future data augmentation activities and attempt to assess the time required to undertake the activity. Potentially, begin the activity sooner, if necessary. Registration system Service Provider continue to work in Sprints to ensure readiness for elements of SIT. Change to SIT programme St Clements working with programme to ensure readiness.	Resources IDNO Key Milestones (in Round 3 plan) Round 3 date & confidence level / RAG Reasons for confidence levels For those intending to participate in Systems Integration Testing (SIT) M9 - SIT CIT start 30-Oct-23 [1] High confidence [] Medium confidence [] Low confidence Progress for M9 is positive. SIT (Functional) start 27-Feb-24 [1] High confidence [1] Medium confidence [] Low confidence Progress for SIT (Functional) start looks positive. M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs 07-Mar-25 [1] High confidence [1] Medium confidence [] Low confidence Progress for M10 looks positive but still some preparation to undertake. For those intending to participate in non-SIT LDSO (qualification) testing Non-SIT LDSOs testing start (Functional / Migration / NFT / Ops) 02-Jul-24 [1] High confidence [2] Medium confidence [1] Low confidence Based on placing reliance communications so far. Expecting potential delays (2 IDNOs) M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs 07-Mar-25 [] High confidence [2] Medium confidence [1] Low confidence Awaiting RA3 results in October to assess any further requirements (1 IDNO) Expecting potential delays (2 IDNOs)	Budget IDNO Adaptor status Decision to use an adaptor Yes [5] No [1] Functional scope of adaptor agreed MPRS only [1] Wider [2] Adaptor procurement completed [3]	Risk					
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Overarching Costs for MHHS Central Parties FY 23/24

Financial Measure	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Totals (£m)
	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	
MHHS Budget	1.39	1.60	1.61	1.70	1.51	1.56	1.55	1.47	1.46	1.55	1.40	3.05	19.85
MHHS Actual/Forecast	1.68	1.88	1.94	1.82	1.51	1.75	1.83	1.77	1.46	1.56	2.08	2.75	22.03
DCC Budget	4.65			4.65			4.65			4.65			18.60
DCC Act/Forecast**	1.39	0.70	0.33	0.45	0.55	1.44	1.14	0.28	0.94	1.80	0.82	8.77	18.60
Helix Budget	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.80	2.40	2.40	2.40	28.20
Helix Act/Forecast	1.89	2.18	2.29	2.02	2.28	2.20	2.36	2.40	1.80	2.40	2.40	2.40	26.62
RECCo Budget	0.24	0.15	0.17	0.15	0.18	0.17	0.47	0.22	0.24	0.38	0.24	0.26	2.85
RECCo Act/Forecast	0.12	0.03	0.05	0.03	0.03	0.04	0.02						0.30
Total Budget	5.17	5.29	5.15	5.39	5.05	5.10	5.56	5.01	4.40	5.47	4.94	6.59	63.08
Total Act/Forecast	5.08	4.79	4.61	4.32	4.37	5.43	5.35	4.45	4.20	5.76	5.30	12.93	66.59

Please note:

- MHHS: * = includes contingency.
- RECCo: include only 3rd party costs (does not include internal resources)

- ** Note from DCC: Increase from Nov 2023 reflects MDR, Capacity and new Elexon Requirements. Actuals row reflects commitment from DCC to it's Service Providers to more accurately show the spread of expenditure over the period. This is a better view which is dependent upon the contractual processes DCC has with it's Service Providers. The Column 'Apr 23' includes all costs up to & including Apr 23, and column 'Mar-24' includes all costs from Mar 24 onwards, to include the full costs of the delivery

SI Workstream – Progress Update

SI Progress
Updated to 29/11/2023

Workstream	Progress	Next steps		
		What	Owner	By When
Design	Design queries <ul style="list-style-type: none"> Low volume of outstanding call with move to calls relating to testing increasing. Average response time in November for closed tickets remains at approx. 1wd Interim Release 6 was successfully released 1-Nov-23. Minor updates to interim release 2.1 and 5.1 were published to reflect corrections of defects found in testing 750 items recorded on the DIN log with >550 being deployed since the fast-track process started. A review of the Interim Release cadence and alignment with testing release has completed. Sessions with industry have taken place. The next Interim Release will be IR7 on 31-Jan-24 	Continue to answer queries and monitor levels, the nature of the call is moving to testing and data related queries	MHHS	Ongoing
		Interim Release 7 on schedule for release 31-Jan-24	MHHS	31-Jan-24
Design	Design Assurance The team has completed all SIT participant dive sessions, all reports have been issued. There have been no material issues identified in SIT participants design preventing their entry in CIT	Continue to monitor and support participants in their design	SIT volunteers	Complete
Testing	SIT volunteers – 19 Placing Reliance Proposals reviewed by Programme and Code Bodies. All review comments issued back to participants. Process complete for CIT except for one PP	Review ahead of SIT Functional	SIT volunteers	Feb-24
Testing	Testing documentation in progress/published in last month: <ul style="list-style-type: none"> SIT Functional Test Scenarios & Test Case Themed Reviews 5/5 + extra reviews complete SIT Functional Themes 1-5 Industry Reviews complete ahead of TMAG Approval CIT Test Cases Batch 2 (Interval 3 and 4 Participants) achieved TMAG Approval CIT Test Cases Batch 3 (Interval 5 and 6 Participants) progressing to TMAG Approval SIT Migration Test Approach and Plan, concluded Industry Consultation and 5-day Assurance Review 	Dec SITWG	MHHS	07-Dec-23
		Dec TMAG	MHHS	20-Dec-23
		Dec SITWG	MHHS	07-Dec-23
		Dec TMAG	MHHS	20-Dec-23
Testing	Test Data <ul style="list-style-type: none"> CIT Data successfully loaded and checked for intervals 2 and 3 CIT Data load and checks for interval 4, in progress 80% complete CIT Data sent through for interval 5 	CIT Data preparation for interval 4 to complete	MHHS	29-Nov-23
		CIT Test data for interval 5 to be loaded and checked	MHHS	08-Dec-23
Sims & Ems	Successfully delivered IR5.1 uplift to DIP Simulator on 3rd November as planned Continued support to Testing during 'smoke testing' Conversations held with SRO around the scoping of non-MHHS Simulators	Continue scoping of non-MHHS Simulators with the SRO and develop requirements documentation when fully scoped	MHHS	Jan-24
		Delivery of DIP Simulator Hotfixes in the lead up to SIT Functional	MHHS	Mar-24
Migration & Transition	The M15 Acceptance Criteria Document was issued for industry consultation on Wednesday 22 November with comments due back by 6 December.	The final document will be brought to TMAG in December for approval	MHHS	20-Dec-23
Migration & Transition	Data Cleanse Working Group continues to run on a monthly basis with highlighted issues being tracked and published on the collaboration base. Programme Participants have been asked to nominate dedicated data cleanse contacts for their organisation to be shared on the collaboration base.	Publish Data Cleanse Contact list	MHHS	Ongoing TBC
Migration & Transition	The Migration Thresholds document was approved by TMAG on 20 November 2023	N/A	MHHS	N/A

FTIG meetings

- Weekly session to Christmas 2023, then review
- Focus on CIT and SIT F readiness and progress
- Constructive engagement on blocker resolution
- Recent key topics:
 - Progress on work off plans to start SIT CIT intervals
 - Recommendation to start SIT CIT interval
 - DIP Onboarding improvements

MHHS Programme
 IPA
 Avande (DIP)
 British Gas / Centrica
 BUUK Infrastructure
 C&C Group Holdings
 Callisto
 Data Communications Company (DCC)
 E (Gas and Electricity) Ltd
 EdF (metering services)
 E.ON Next Energy Limited
 E.ON UK Energy Solutions (metering services)
 Edgware Energy
 Electralink
 Elexon Central Systems (Helix)
 Energy Assets Ltd
 Ensek
 ESG
 IMServ
 Itron Metering Solutions (UK)
 Kraken Data Services
 Last Mile Electricity Ltd
 National Grid Electricity Distribution

National Grid ESO
 Npower Business Solutions
 Octopus
 Octopus Energy Services (metering services)
 OVO (metering services)
 Power Data Associates
 Procode
 Rebel Energy
 RECCo
 SeaGlass
 SMS
 SSEN
 St Clements Services
 Stark
 TMA Data Management
 Tym Huckin Ltd
 Unify Energy
 Utilita
 Utiliteam
 Wheatley Solutions



Overall Status

- The Code Drafting Workstream is on track for M6 delivery in August 2024 and lower-level tier 3 milestones are all on track



November Summary

- Tranche 4, Interface/Data Specification and Transition Text consultation comments have been triaged and the updated text and comments log will be published for the assurance stage refinement process – 22/11
- Mop-up Code drafting of Code Artefacts finishing and will be released for Industry Consultation – 30/11?



December Deliverables

Tranche 4 Interface/Data Specification and Transition Text Industry Assurance Review continues and closes on 13/12?
Mop-Up 1 Industry Consultation continues and closes on 22/12

Drafting Milestones	Baseline date	Forecast date	Status
Data Services approved at CCAG	24/05/23	24/05/23	Complete
Metering Services approved at CCAG	24/05/23	24/05/23	Complete
Registration approved at CCAG	23/08/23	23/08/23	Complete
BSC Central Services approved at CCAG	27/09/23	27/09/23	Complete
Governance, Migration and Qualification approved at CCAG	22/11//23	22/11/23	Complete
Transition Text and Interfaces approved at CCAG	24/01/24	24/01/24	Green
Topic Area Mop Up approved at CCAG	22/05/24	22/05/24	Green
Consequential Change approved at CCAG	22/05/24	22/05/24	Green
Finalise and consistency check approved at CCAG	23/08/24	23/08/24	Green
Code changes baselined (M6)	23/08/24	23/08/24	Green
Smart Meters Act powers enabled (M7)	11/11/24	11/11/24	Green
Code changes delivered (M8)	07/03/25	07/03/25	Green

Governance group updates

Programme Steering Group (PSG)

Updates from PSG 08 November 2023

- Qualification Testing:** Code Bodies and the Programme provided updates on Qualification Testing (QT), noting the need for urgency. Code Bodies will retain overall accountability for delivery and the Programme will support QT for non-SIT LDSO in the lead up to Programme milestone M10 (Central systems ready for migrating MPANs), including seeking to align QT and SIT to support use of the Placing Reliance Policy. An overview of the schedule for test execution was provided in the meeting papers. Updates on Supplier and Agent qualification will be provided at the December PSG meeting.
- MHHS Appeals Process:** Recommendations for improvements to appeals and escalation processes were accepted and will be implemented in due course.
- TMAG Restructure:** Recommendations for a restructuring of the Testing and Migration Advisory Group (TMAG) were accepted and will be delivered via a Programme Change Request.

PSG papers available [here](#).

Testing and Migration Advisory Group (TMAG)

Update from TMAG 23 October 2023

- Migration Threshold document:** TMAG members approved this document.
- T2 Readiness Assessment for CIT Interval 3:** TMAG members approved the Readiness Assessment, following a recommendation from FTIG.
- Environments Approach and Plan (SIT Functional) v2.9:** The TMAG members approved this document.
- TMAG Approval Process.** The Programme shared the new method for level 2 and 3 approvals with TMAG.
- TMAG restructure:** The Programme shared the proposed the new TMAG structure.
- Qualification Update:** The Programme provided an update on Qualification.
- Testing Update:** The Programme provided an update on Testing.
- IPA Test Assurance Update:** The IPA provided an update on P1 and P2 Test Assurance.
- 3 Month Milestone Look Ahead & Milestone Changes:** The TMAG approved milestone changes to the Programme Plan.

TMAG papers available [here](#)

Design Advisory Group (DAG)

Updates from DAG 08 November 2023

- CR032 Decision:** The DAG requested updates are made to Programme Change Request (CR) 032 ([Change to Interface IF-165 P0210 TUoS Reporting](#)) and the CR re-issued for a five working day Impact Assessment (IA).
- CR034 Impact Assessment:** The DAG approved CR034 ([Delay to Elexon Level 4 validation response – NFR \(1009\)](#)) for issue to IA, subject to requested amendments
- Transition Design Decision:** DAG approved the baselining of the Tranche 2 Transition Design Artefacts (Settlement Timetable Transition).
- UTC vs Clock Time Decision:** DAG approved the use of Clock Time for Change of Supplier reads and Service Appointments and for this to form the basis of a new CR to enable formal Impact Assessment.
- Updates to the Interface Code of Connections (CoCo):** DAG deferred a decision on the updated CoCo whilst updates agreed at the SDWG are applied. The redlined CoCo will be issued to SDWG attendees for review and an ex-committee approval decision sought from the DAG.

DAG papers available [here](#)

Cross Code Advisory Group (CCAG)

Update from CCAG 22 November 2023

- Horizon Scanning Log:** For BSC, CP1589, CP1590 were discussed. For REC, R0083, R0083A, R0026, R0043, R0065, R0081 were discussed, for DCUSA, DCP419 was discussed. There were no new changes that the Programme believed will impact them.
- CDWG Escalations:** The CCAG approved the BSC and REC Migration, Governance and Qualification Code Artefacts.
- CCAG Reporting, Risks and Milestones:** The Programme shared an update on the Code workstreams status against the plan, including top programme risks related to CCAG, and an overview of the Mop-up approach and controls.
- Consequential Code Change Delivery:** Updates from Elexon and NGESO were provided in relation to their delivery status.
- CDWG Update:** The Programme provided an overview from CDWG.

CCAG papers available [here](#)

Wider Programme Updates

DIP Message Signing Update: The Programme has enhanced the DIP Simulator to mandate message signing, ensuring participant preparedness for Component Integration Testing (CIT). This update is scheduled to go live on **Friday 24 November 2023**. The Sims & Ems team will deploy two versions of Interim Release 2.1 (IR2.1) (CIT) DIP Simulator: Primary Version (Enforced Message Signing) and Secondary Version (Bypassed Message Signing)

Participant Checklist:
SIT Migration Test & Test Data Approach & Plan Assurance Review: The Programme published the **Systems Integration Testing (SIT) Migration Test Approach & Plan** and the **SIT Migration Test Data Approach & Plan** for an Assurance Review and feedback on **Tuesday 21 November**. The Assurance Review for both documents will last for five working days and comments are due by **17:00 on Monday 27 November 2023**. To view both documents, please visit the [SIT Migration Test and Test Data Approaches and Plans page of the MHHS website](#).

CR035 issued for Impact Assessment: (PSG) approved [Change Request CR035: Programme proposal to restructure TMAG in the MHHS Governance Framework and other housekeeping updates](#) for Impact Assessment. The Impact Assessment was issued on **14 November 2023** and the deadline for responses is **17:00 on Tuesday 28 November 2023**. To provide your feedback and Impact Assessment please complete the CR035 form and email it to PMO@mhhsprogramme.co.uk

Milestone 15 (M15) Acceptance Criteria Consultation: The Programme published the **Milestone 15 (M15) Acceptance Criteria** for industry consultation on **Wednesday 22 November 2023**. The consultation will last for 10 working days and closes at **17:00 on Wednesday 6 December 2023**. To view the document, please visit the [Migration page of the MHHS website](#).

Upcoming Events:
LDSO Placing Reliance Walk Through: 23 November 2023: On **Thursday 23 November 2023**, the Code Bodies and Programme team will hold an LDSO-specific session to walk through and provide additional guidance on how to complete the Non-Systems Integration Testing (SIT) Placing Reliance Form. Please email the Programme Party Coordinator (PPC) team at PPC@mhhsprogramme.co.uk if the invitation needs to be extended out to anyone.

Extraordinary Qualification and End-to-end (E2E) Sandbox Working Group (QWG): 27 November 2023: There is an extraordinary Qualification and End-to-end (E2E) Sandbox Working Group (QWG) session for **Suppliers and Supplier Agents** on **Monday 27 November 2023**. Visit the [QWG page of the Collaboration Base](#) to view the meeting papers. If you are a Supplier or Supplier Agent and would like to be invited to this session, please email the PMO team at PMO@mhhsprogramme.co.uk



Testing

- The PPC Team are continuing to support the Testing Team in ensuring participants' readiness for their assigned CIT intervals and entering and completing SIT Functional
- We have supported the Testing Team in holding ADO User Training, Day-in-the-life (DITL) Guidance Sessions and conducting a CIT Dress Rehearsal. These were all well received by the participants, with a number of key learnings taken away to allow for the development and continuous improvement of future sessions.
- We also supported the facilitation of SIT Functional Test Scenarios & Test Cases Deep Dives and the coordination and publication of Test Scenarios and Test Cases files
- **Next Steps:** Begin supporting the Testing Team through CIT Execution and additional readiness for CIT Intervals 2 – 6. Continued support with the uplift of Test Scenarios and Test Cases to reach approval at upcoming TMAGs



Qualification

- PPC supported the non-SIT LDSO Placing Reliance form session with the Code Bodies on 23 November
- PPC team have moved the Qualification PEM to a weekly cadence, developing a FAQ to support participant engagement and addressing participant bilateral feedback.
- PPC team also supported warm up conversations with supplier and supplier agent participants ahead of the extraordinary QWG on 27 November.
- **Next Steps:** Post the LDSO Placing Reliance session - facilitating the participant communications including an FAQ



Targeted and Tailored Communications

- The PPC team have identified 3 webinar topics for Q1 2024 (Placing Reliance Form, Intention to Qualify, and Migration) and planning has started for the Open Day March 2024.
- Phase 2 of the Communications Channels action plan is underway to support participant's user experience on the Collaboration Base and website.
- **Next steps:** Support Programme cascade of information regarding the Change Freeze and continue to support DIP Onboarding and CIT Readiness communications and engagement where required.



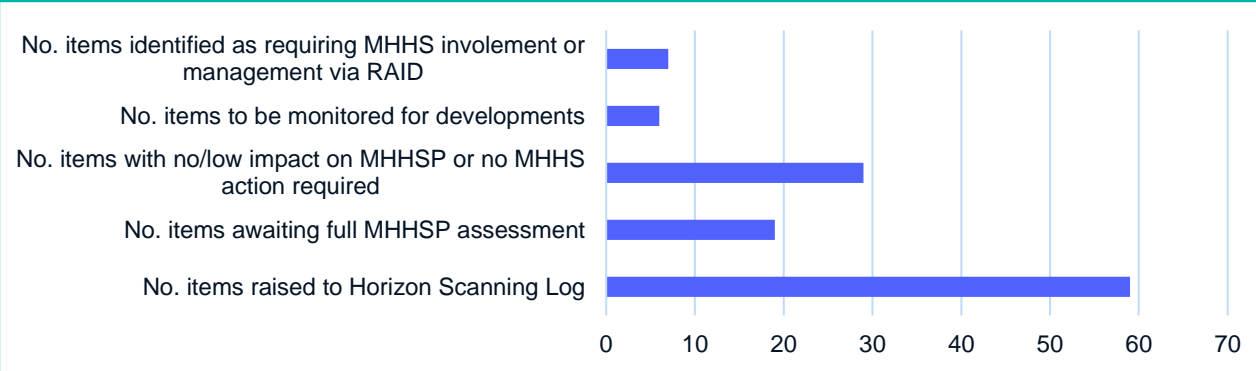
Participant Readiness

- The PPC Team has published the RA3 Overall Report and has shared individual participant reports with all participants who responded to RA3.
- **Next steps:** Continue to track actions following both Design and Delivery Assurance sessions.

Industry horizon scanning: Summarise items monitored via the Cross-Code Advisory Group (CCAG) horizon scanning process

Horizon scanning metrics

The following graph summarises items being monitored via the Programme's horizon scanning process



More information can be found via the [CCAG meeting papers](#)

Direct link: [MHHS-DEL387 CCAG Code Change Horizon Scanning Log v1.0](#)

Industry code changes: 59 – REC: 32, BSC: 12, SEC: 4, DCUSA: 10, CUSC: 1

Wider industry changes: 5 – HH opt-out, DUoS SCR, code review, microbusiness definition, licence change

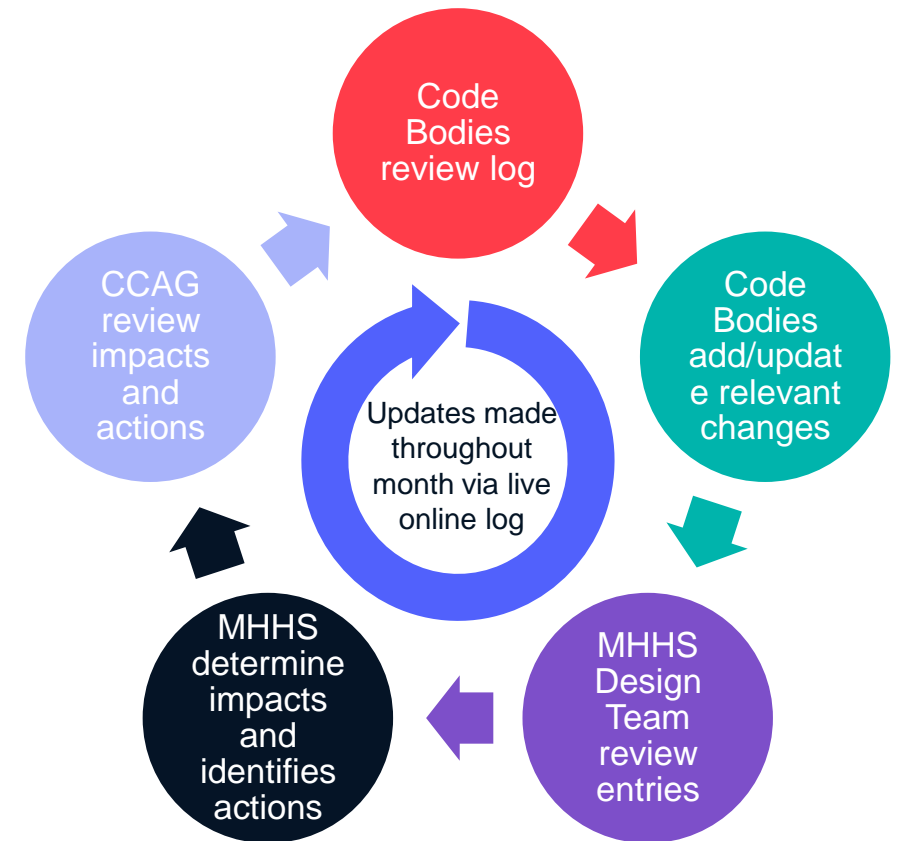
Criticality of horizon scanning items – High: 4, Medium to High: 3, Medium: 4, Low/No impact: 29

Top RAID linked items:

- **SEC MP162** (R0011, R0083, R0113, R0115, R0116, R051, R0182, R0191, D0076, D0077)
- **REC R0032** (D0068, D0069)
- **REC R0044** (D0055)

Horizon Scanning Process

The CCAG collaborate to populate the Horizon Scanning Log and the Programme undertakes impact assessment of each change. Where a change requires actions by the Programme beyond simple monitoring or initial definition, this is entered into the Programme RAID framework with an appropriate action plan and owner put in place.



Dashboard Objective: To provide PSG with a progress update on in-flight and future planned assurance activities. Assurance themes and agreed actions will be shared with PSG on a quarterly basis with specific Work Package (WP) assurance reports shared in the lead up to key milestones.



Assurance Activities in Progress / Completed during month

Theme-Based Assurance

- **Ongoing Embedded Assurance Activities (WP1) - In Progress** - Monthly cadence of regular interactions with MHHSP. MHHSP Governance decision IPA appeal approach and criteria published..
- **Design Documentation (WP4) - In Progress** - Continued monitoring of ongoing design updates/change requests through attendance at DAG and DRG and review of supporting documentation.
- **Conflicts of Interest (WP5) - In Progress** - The scope of ongoing assurance activities is currently being socialised and agreed with the Programme and Ofgem.

Stage-Based Assurance

- **Test Assurance (WP9) “Period 3 (P3)” - In progress** - Ongoing assurance activities are being performed during SIT CIT and are underway. Update reports are being provided to FTIG prior to the commencement of each CIT Internal with the IPA view on readiness to progress.
- **Qualification (WP12) - Completed** - Performed Qualification Testing planning artefact review and provide IPA recommendation to Elexon and the Programme



Upcoming Assurance Activities

- **Qualification (WP12) - Scoping of ongoing Qualification assurance activity currently targeting December 2023 for scope to be agreed.**



Assurance Action Status

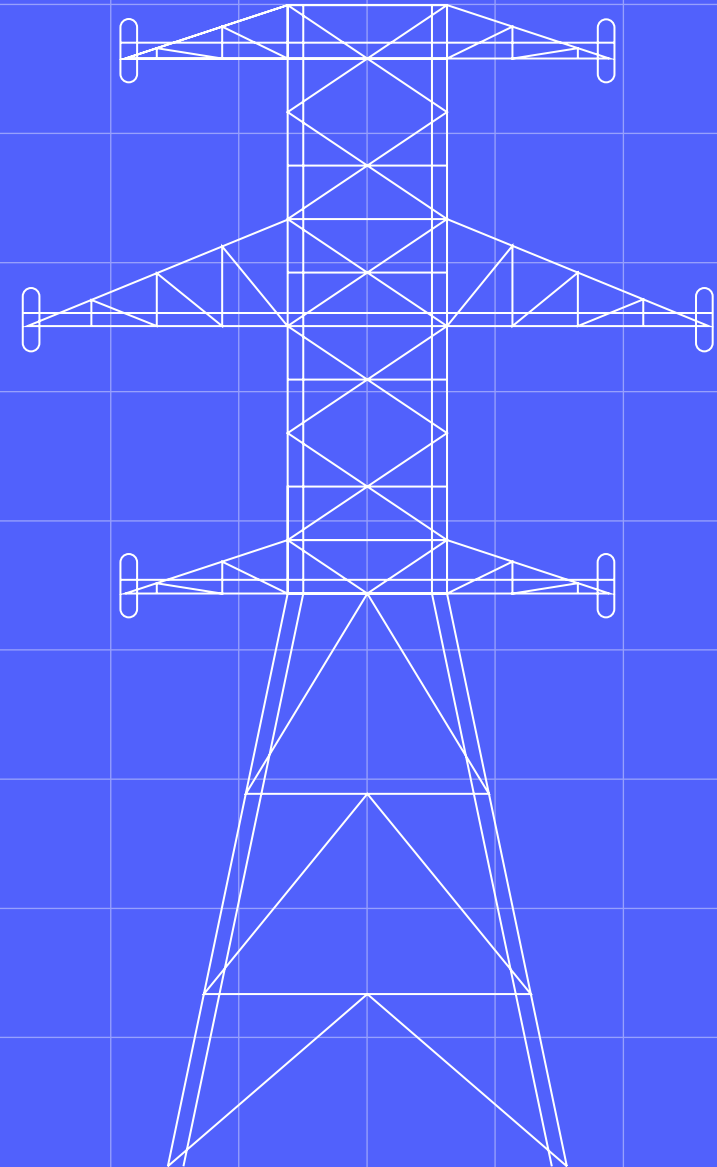
We are currently in the process of confirming closure status of open actions and re-baselining the tracker. Updating reporting will be provided for next months PSG.

Summary and Next Steps

INFORMATION: Summarise actions and decisions.
Look ahead to next meeting

Chair and Secretariat

5 mins



Summary and next steps

1. Confirm actions and decisions from meeting
2. Next PSG meeting:
 - **Regular: 10 January 2024 10:00 – 12:30 (virtual)**
3. Holiday working arrangements:
 - From **Friday 22 December 2023** to **Tuesday 2 January 2024** there will be no MHHS governance meetings, and we won't publish any documents for formal review
 - We will treat this period as non-working days, allowing additional time for responses to any in flight consultations / review requests
 - Any governance meetings scheduled for the last week of December 2023 will be brought forward and any governance meetings scheduled for the first week of January 2024 will be deferred where practicable
 - If you have any questions or you'd like further information, please email PMO@mhhsprogramme.co.uk

10 January 2024 agenda items

- Qualification Testing
- Migration Updates
- Testing Updates

Standing items

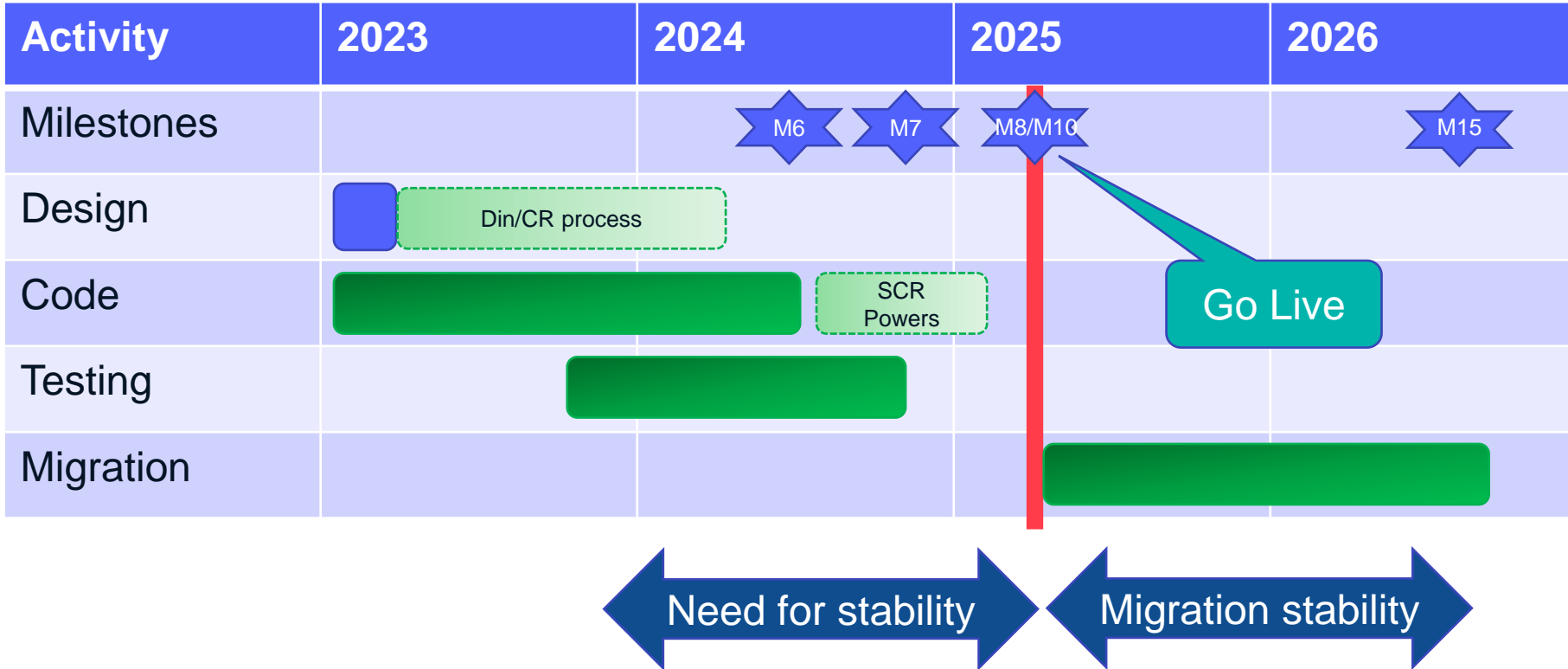
- Minutes and action review
- Sponsor update
- Programme reporting
- Delivery dashboards
- Summary and next steps

If you would like to propose an agenda item for the PSG, please contact the PMO at PMO@mhhsprogramme.co.uk

Thank you

Appendix

Programme and Change Freeze Timelines



- Key points**
- Pre-M6, change implementation possible needs Programme PCR for IA and Implementation date
 - Post-M6, before M8, Programme PCR required for IA - implementation deferred to post M8/M10
 - Post M8/M10 changes are BAU, unless impacting Migration
 - Materially impacting migration implementation deferred to post-M15

Background

- Fast-Track change progress was introduced to manage the large volume of updates to the design
- These updates addressed errors, ambiguities and added needed clarifications.
- These updates were issued via Interim Releases as published in the DIN Log
- The timetable for the release is a monthly cadence with a release plan running out to April 2024.
- The last Interim Release is IR6 published on 1-Nov-23

Proposed Interim Release alignment with Testing

- We will be reducing the cadence of future releases to better align with testing cycles
- Interim Release 7 will now move to 31-Jan 24 and form the input into SIT functional test cycle 2 (July 24)
- Interim Release 8 will now move to 03-Apr-24 and form the input into SIT functional test cycle 3 (Sep 24)
- Programme Change Requests will continue with the updates to design documents now falling into the revised IR schedule

Acknowledgements

- There has been and will be a need to continue to issue minor increments to Interim Releases as a consequence of testing defect. Recent examples being IR2.1 and IR5.1 The Programme is aware of the challenges of maintaining a clear and consistent view of which version of the design participants are building to and executing
- The Programme will endeavour to provide as much time as possible with clear guidance to updates but recognise this will become increasingly challenging as we approach a new testing cycle

Next Steps

- The DIN log will be updated to reflect the new timeline and will continue to be published at regular intervals
- Additional information will be added to the DIN log to capture where a DIN relates to a defect from testing
- Objection windows will remain and be updated to reflect the new schedule with the exception of testing defects as they are needed to allow testing to progress.
- The Programme will focus on those DINs and Programme Change Request that impact on our ability to proceed to future milestones or go-live. Other non-urgent DINs will be logged but scheduled for post go-live

Change Freeze Solution

Principles – applies to change which impacts MHHS Programme

- Change threshold increased to essential change only – i.e. to fix the Design
- External Code Modifications/CPs are not progressed to approval until after Programme CR approved
- External Code change implementation deferred to post Go-live (M8/M10) (Design/Code/Testing impacted)
- External Code change implementation deferred to post Migration complete (M15) (Migration impacted)
- Where there is a non-impacting Programme Change – e.g., gas change – this proceeds as normal

Approach, criteria and scope

- Via CCAG, SRO communicates to Code Bodies and Ofgem the need for Code Freeze – (change freeze to Design, Code, Testing etc.)
- All electricity Code Bodies continue to engage MHHS Programme for all change which ‘may’ impact the Programme via CCAG (and bilaterally)
- Change is centrally managed and coordinated via CCAG Horizon Scanning process
- Pre-M6 implementation possible, provide Programme CR approved
- Pre-M8, impacting change, implementation is deferred until after go-live
- Post M8/M10, Code change follows BAU Code Body Process
- Until M15, Code change process MUST assess for material impacts to MHHS Migration
- Immaterial Code change is possible providing Programme engagement – to enable minor non-impacting and/or non-material change

Controls

- CCAG make recommendation to SRO and SRO escalates to PSG for their awareness and Programme Reps cascade to all Participants (plus The Clock and other Programme comms)
- CCAG Horizon Scanning Process and Log
- Communication/reminder to Code Body Panels – MHHS SCR Process – not to progress Programme impacting change to implementation
- Programme Code Body Mid-month Meeting and bilateral meetings with MHHS Programme
- Ofgem oversight as Regulator (change approver)