SI Overarching SIT NFT Readiness Report Theme 1 Participants
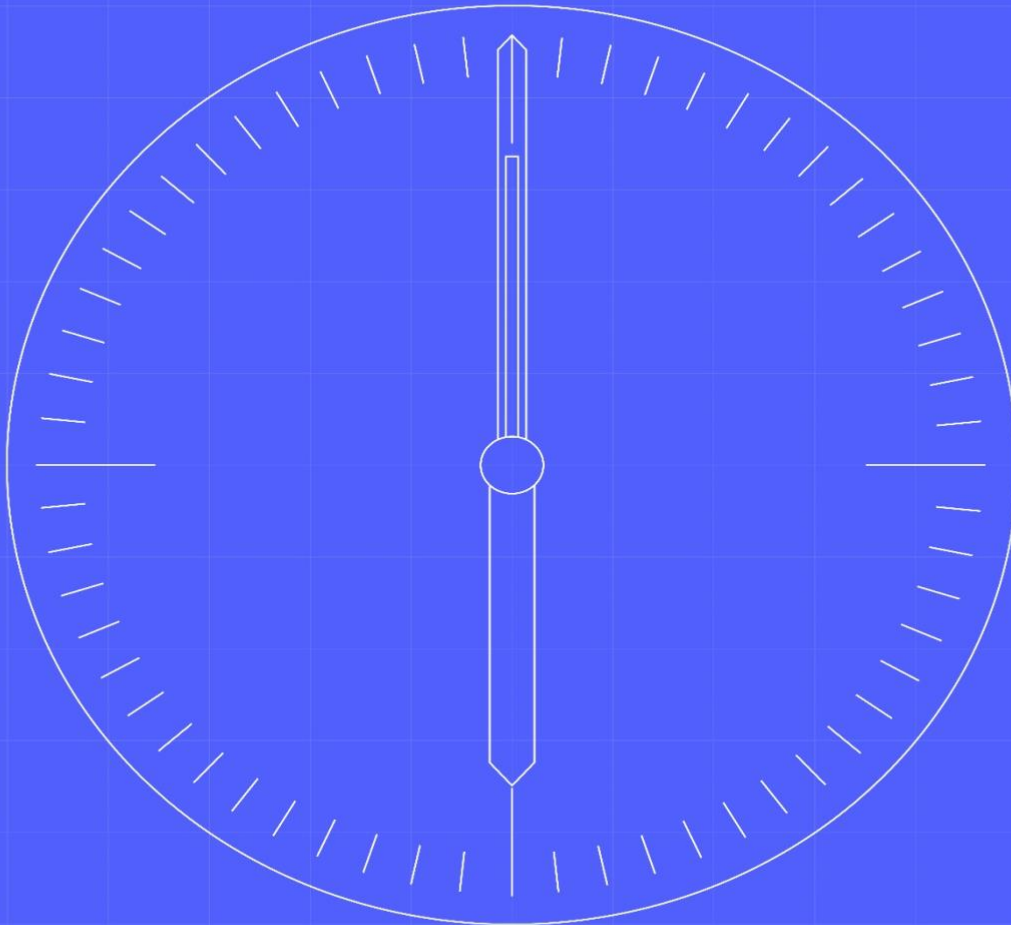
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1 SI Overarching SIT NFT Readiness Report

1.1 Change Record

Date	Author	Version	Change Detail
4th November 2024	David O'Riordan	0.1	Initial report content compiled for SRO/IPA review
28th February 2025	David O'Riordan	1.0	Issued to V1.0 following SITAG Approval

1.2 Document Review & Approval

Name	Role	Organisation	Review / Information / Approval / Sign Off
Roger Robar	MHHS SI Programme Test Manager	MHHS LDP SI	Approval
Adrian Ackroyd	MHHS SRO Client Test Programme Manager	MHHS SRO	Approval
Phil Heiton	MHHS SRO SIT NFT Test Lead	MHHS SRO	Review

1.3 Document References

Ref No.	Document/Link	Publisher	Published	Additional Information
REF-01	MHHS-DEL1064 - Placing Reliance Policy	SI Testing	27th April 2023	
REF-02	MHHS-DEL852 PIT Guidance v2.6	SI Testing	8th July 2024	
REF-03	MHHS-DEL618 MHHS Programme Environment Approach and Plan v2.12	SI Testing	10th June 2024	
REF-04	MHHS RAID Log – please contact PMO@mhhsprogramme.co.uk for Raid Log access.	PMO	-	
REF-05	MHHS-DEL2127 SIT Non-Functional Test Approach & Plan v0.6	SI Testing	19th April 2024	

1.4 Terminology

Term	Description
Various	For terminology, see Programme Glossary on the MHHS portal: Programme Glossary (SharePoint.com)

1.5 Document Purpose and Guidance

The Market-wide Half Hourly Settlement programme (MHHS), when completed, will contribute to a more cost-effective electricity system, encouraging more flexible use of energy and helping consumers lower their bills.

The objective of the SIT NFT Test stage is to validate the performance of the new MHHS arrangements designed for the Programme by involving all Central Systems, the Registration Service and at least two Services for each market Role, all connected via the Data Integration Platform (DIP) enabling End-to-end NFT tests to be conducted. These End-to-end NFT tests are based on a number of Themes which are described at a high level below;

- Theme 1 – Central Party connectivity testing, aiming to exercise full load volumes between the DIP and Helix only
- Theme 2 – Operational Choreography testing, aiming to exercise 'day in the life' processes across all industry participants to support a four-day settlement process
- Theme 3 – Resilience testing, aiming to validate the resilience of all participants systems in the event of catastrophic failure – in this instance unavailability of the DIP

The purpose of this overarching report is to certify readiness just for those two central parties that will be directly involved in the Theme 1 phase of testing i.e. Avanade and Helix who are providing the DIP platform and the Load Shaping platform for the programme respectively

Prior to System Integration Test (SIT) NFT Test commencement, each participant is required to provide a Participant SIT NFT Test Readiness Report as a formal self-declaration of their SIT NFT readiness status in relation to their preparation activities as outlined in section 8.1.5 of [REF-05] MHHS-DEL2127 SIT Non-Functional Test Approach & Plan

The objective of the Participant SIT NFT Test Readiness Report is to demonstrate the preparedness of testing efforts for each organisation entering SIT NFT. As a key milestone before the commencement of testing activities, the report aims to ensure that all necessary components and prerequisites are in place to conduct testing efficiently and effectively.

The report will need to include:

- A completion status of Test participant owned SIT NFT readiness activities which have been specified in the Report itself.

- A statement and supporting evidence against the Test participant owned SIT NFT Entry Criteria, as documented in section 8.2 in [REF-05] MHHS-DEL2127 SIT Non-Functional Test Approach & Plan.

- Details of any exceptions i.e.readiness tasks, entry criteria, open PIT defects that have not been completed, met or resolved at the time of writing of the readiness report, and the associated work off plans and dates agreed with the MHHS programme for when these activities are planned to be completed.

- For Qualifying participants that have adopted the [REF-02] MHHS-DEL1064 - Placing Reliance Policy, evidence will need to be provided that demonstrates their proposal has been accepted by the Programme and that a placing reliance RACI has been agreed with their 3rd Party providers and the MHHS SI.

- Any new risks or issues to declare.

- Evidence that the Test participant Readiness Report has been approved and signed by a senior stakeholder authority within the Qualifying participants' organisation, i.e. an approval from a delegated 3rd party provider only will not suffice.

Individual organisations' Participant SIT NFT Test Readiness Report provide the formal input into an SI Overarching SIT NFT Readiness Report for SIT NFT Theme 1 (this report), which aggregates the readiness position of all participants in addition to the SI owned readiness activities and entry criteria (as specified in section 8.2 of [REF-05] MHHS-DEL2127 SIT Non-Functional Test Approach & Plan, and to document any risks, issues or exceptions and associated work off plans that impact the planned SIT NFT test execution start date. The status and recommendations in this report will feed into a MHHS programme governance decision via SITAG on whether to proceed with SIT NFT Theme 1 Test execution.

Please note that this is an interim report which confirms the position on SIT NFT Theme 1 readiness tasks and entry criteria, documenting exceptions and work off plans at the time of writing. The progress status through to closure of any work off plans will be reported to the relevant governance forums making a decision to approve commencement of testing.

2 SIT NFT Readiness Status

2.1 SIT NFT Readiness Status Guidance

The following slides within Section 2 provide SIT NFT Readiness Task Status. Each slide will contain:

- Overall Status Table

- Readiness Declaration Table

- Overall Readiness Date Planned

- Work Off Plan

The Overall Status Table is split into 6 rows, each which will contain the readiness status against a set of sub-activities as listed below:

- PIT – SIT NFT

    - PIT Approach and Plan

    - PIT Requirements to Test Traceability Matrix

    - PIT Test Scenarios

    - Final PIT Completion Report

    - PIT Execution

    - PIT Completion Status

- Environment & Code Deployment

    - SIT-B Environment Uplift to IR8.7 Design Release

- Data

    - Central Parties, Suppliers and Metering Services have loaded Test Data in support of SIT NFT commencement

- ADO New User Built

    - New Test Users, allocated to deliver SIT NFT, as documented in each Participant SIT NFT Test Readiness Report built in ADO

- Readiness Declaration

    - Participants self-declaration of readiness to support delivery of SIT NFT Testing

- SIT NFT Test Entry Criteria

    - Overall readiness assessment for Central Parties and/or Cohorts, assessed based on completion of Work Off Items

2.2 SIT NFT Readiness Status – Central Party participants for Theme 1 SIT NFT

Overall Status

SIT NFT Readiness Tasks	Completion Date	Overall Status
PIT	04/02/2025	Complete
Environments & Code Deployment *	04/02/2025	Complete
Data **	28/02/2025	Not Started
ADO New Users Built	04/02/2025	Complete
Readiness Declaration (see table on right for detail)	21/02/2025	Complete
SIT NFT Test Entry Criteria	04/02/2025	Complete

Readiness Declaration

Declarations		DIP	Helix	BUUK (LDSO)	BUUK (UMSO)	SSEN	EES
Ready	A						
Ready Subject to Work Off Plan	B	A	A	N/A	N/A	N/A	N/A
Not Ready	C						

Overall Readiness Date Planned – 04/02/2025 (See caveats below)

*Based on PIT completion using a deployed compatible environment against a specific IR version, a formal statement to this effect in SIT NFT readiness report and the ability of the PP to engage in ongoing testing activities against current IR versions

**Per Programme Plan, Data Loading will not occur until just prior to SIT NFT Theme commencement so the status will remain not started until post approval sessions

Work Off Plan (for all Amber / Red activities in tables above)

ID	Status Date	Area Path	Description	RAG	Owner	Resolution Date	Resolution Path

MHHS PROGRAMME
Industry-led, Elexon facilitated

A Self-Assessed as Ready for SIT NFT and has no NFT Data to Load

A Self-Assessed as Ready for SIT NFT but has NFT Data to Load

Figure 1: SIT NFT Readiness Status – Central Party participants for Theme 1 SIT NFT

3 Placing Reliance

The MHHS programme has reviewed the Placing Reliance proposal submissions provided by the concerned Qualifying MHHS participants for SIT NFT, in order to determine if there were any material impacts to those previous submissions in reference to the Cohort model which is being applied within SIT Migration. The assessment concluded that there were no material impacts to those prior submissions, and the Proposals remained valid.

4   SI SIT NFT Entry Criteria Status

#	Entry Criteria	Status / RAG (Met, Partially Met, In Progress, Not Started)	Notes / Exception & Work Off	Forecast Date	Assurance Sign Off Status	Evidence
1	SIT NFT Test Approach and Plan Approved	Met				
2	SIT NFT Test Data Approach and Plan Approved	Met				
3	SIT NFT Test Scenarios Approved	Met				
4	SIT NFT Test Cases Approved	Met				
5	SIT Requirements Traceability Matrix Approved	Met	Manual SIT NFT RTTM has been reviewed/approved by SRO/code bodies (REC & BSC)/DIP Manager.		Signed off	Link
6	SIT NFT execution schedule is agreed	Met	Draft Day 1-N schedules for Themes 1,2 and 3 have been worked up. Approved by SRO. Fixed date schedules have now been produced based on latest plan dates.		Signed off	Link
7	SIT NFT Test Ordering Published	Met	Detailed test ordering has been outlined in draft schedules as described above		Signed off	Link
8	Test data has been allocated to participants	Met	Test Data team responsible for this, all test data has been identified and allocated to all PPs			
8	Test Management Tool has been set up, including participant access, tests loaded and assigned to participant instances	Met	Single master NFT project created, working on uploading test cases and scenarios – reliant upon some further development of the ADO automated test case upload tool. Upload tool process verified. Test cases to be uploaded to Central ADO project instance			
9	SIT PP pairing confirmed	Met	This is per existing cohort setup			
14	Defect Management Process in place and ready	Met	Existing Programme defect management process for previous phases will be applicable			
15	Environment Management process in place and ready	Met	Existing environment management process will apply for SIT-B. All SIT PPs already onboarded and operating in SIT-B for SIT F settlements testing			
16	Release Management Process in place and ready	Met	This will follow existing Programme release management process employed for previous phases			
17	Test governance is in place and ready	Met	This will adhere to existing governance structures for previous phases			
18	Creation and approval of SIT NFT DITL pack	Met	SIT NFT DITL has been created, approved by SRO		Signed off	Link
19	Test meetings have been set up	Met	Test meetings schedule per theme has been outlined in the NFT DITL pack. Required additional Theme 1 meetings have been arranged by PPC			
20	Test reporting is in place and ready	Met	Details on the nature/cadence of reporting for NFT SIT phase has been outlined in the DITL pack. Draft reporting formats are being refined by the NFT team currently. Draft report versions due 12/01/25			

Table 1: SI SIT NFT Entry Criteria Status

5 SIT NFT Preparation – Milestones, Statuses & Work-off Plans

5.1 SIT NFT Preparation – Milestones, Statuses & Work-off Plans (Part I)

Milestone ID	Milestone Title	Baseline Date	Forecast Date	Responsible	RAG	Commentary including any expected work-off
T3-TE-0026	SIT NFT Testing NFT Approach & Plan Approved			SI NFT		
T3-TE-0113	SIT NFT Testing Data NFT Approach & Plan Approved			SI Data		
T3-TE-0028/0036	SIT NFT Test Scenarios & NFT Cases Approved (Theme 1)			SI NFT		
T3-DB-0151	All PIT NFT Approach & Plans submitted to Programme for assurance			PPs		All docs submitted
T3-DB-0152	All PIT NFT approach and plans MHHS Reviews Completed			SI NFT		Feedback provided, incorporated and final versions accepted
T3-DB-0153	All PIT NFT RTTMs submitted to Programme for assurance			PPs		All docs submitted
T3-DB-0154	All PIT NFT RTTMs MHHS Reviews Complete			SI NFT		Feedback provided, incorporated and final versions accepted
T3-DB-0155	All PIT NFT scenarios submitted to Programme for assurance			SI NFT		All docs submitted
T3-DB-0156	All PIT NFT Test scenarios MHHS Reviews completed for Theme 1 PPs			SI NFT		Feedback provided, incorporated and final versions accepted
T3-DB-0157	All PIT NFT Completion Reports Submitted to Programme for Assurance for Theme 1 PPs			PPs		All docs submitted
T3-DB-0158	All PIT NFT Completion Reports for Theme 1 PPs MHHS Review Completed			SI NFT		Assurance now completed for Avanade and Helix. Pending HA clarifications from Avanade but this is acknowledged as not a pre-requisite for SIT NFT Theme 1
T2-TE-0700	**SIT NFT Testing Preparation Complete Theme 1**			SI NFT		

Table 2: SIT NFT Milestones Pt I (as of 31-JAN-25 at 17:00)

6 Risks & Issues

There are several associated risks and issues that the Programme has proactively tracked, monitored and analysed as part of assessing readiness to commence SIT NFT. Those key to informing the recommendation, along with clear mitigation plans, are captured below:

Risk	Key Risk or Issue (specific items or themes)	Mitigation or Resolution	Owner(s)
R1053	Data loading for SIT NFT Theme 1 PPs to support SIT NFT Theme 1 execution (33M synthetic MPAN data set) will not have concluded in advance of the issuance of this report, this is as per the current Programme plan (With data loading occurring just prior to the commencement of SIT NFT Theme 1). Data readiness is included as part of the SIT readiness evaluation criteria for PPs but given the order of execution of activities it is not possible to confirm completion of this at this stage.	1) For Theme 1 data loading is only required on the Avanade side. The 33M synthetic MPAN data set is a well understood input and will be loaded using bespoke Avanade tools for which it has been tailored. Avanade themsleves do not see a high level of risk around this planned activity.	Avanade/MHHS Data Team
R1023	The LDP injection tool to support SIT NFT Theme 1 volume testing has been delivered but it has not been possible to test this at full Production volumes in advance of the issuance of this report due to lack of a suitably scaled environment in which to do so. Such a suitably scaled environment (i.e. SIT-B) will not be available until immediately prior to the commencement of Theme 1 execution.	1) To mitigate risk around the injection tool it has already been validated at low volumes against DIP SIM IR 7.1 and 8.1 instances, as well as against actual DIP instances in the UIT environment (IR 8.1, IR 8.3, IR 8.4). Thus, basic compatibility has been proven. As a result, the risk becomes purely around scaling of the tool, this will be reliant on Microsoft Azure platform Engines scaling capability whch is a standard mechanism and one that has been successfully leveraged in a similar fashion for Avanade's own PIT testing and early view testing at scale between Avanade/Helix.	LDP NFT Team

Table 3: Risks and Issues

For all other Risks, please see [REF-04] (RAID Log)

7 SI SIT NFT Readiness Recommendation

Based on the content of this report at the time of writing, considering SIT NFT Theme 1 involved participants forecast readiness the MHHSP recommendation is to proceed with starting SIT NFT execution as planned, subject to the agreement of any outstanding Work-Off Plan items. These work off items are highlighted in the 'SIT NFT Status reports' in Section 2 of this document.

This recommendation is based on; (a) the fact that both Theme 1 participants have demonstrated their readiness to engage in SIT based on PIT completion and individual SIT readiness report statements; (b) it is beneficial to test and uncover SIT NFT defects as early as possible and (c) that the SIT NFT execution plan demonstrates that SIT NFT testing can be delivered on time on the basis of a set of reasonable assumptions).

The recommendation avoids delay to the start of SIT NFT Theme 1 and avoids later exposure of Defects, which would otherwise introduce risk to the completion of SIT NFT Theme 1 according to the MVC timelines in the programme plan. It also serves to de-risk the critical paths towards the start of non-SIT LDSO testing and Go-Live (M10).