



**MHHS
PROGRAMME**

Industry-led, Elexon facilitated

SIT NFT SI Overarching Exit Report

MHHS-DEL3958

4th July 2025

Version 0.1

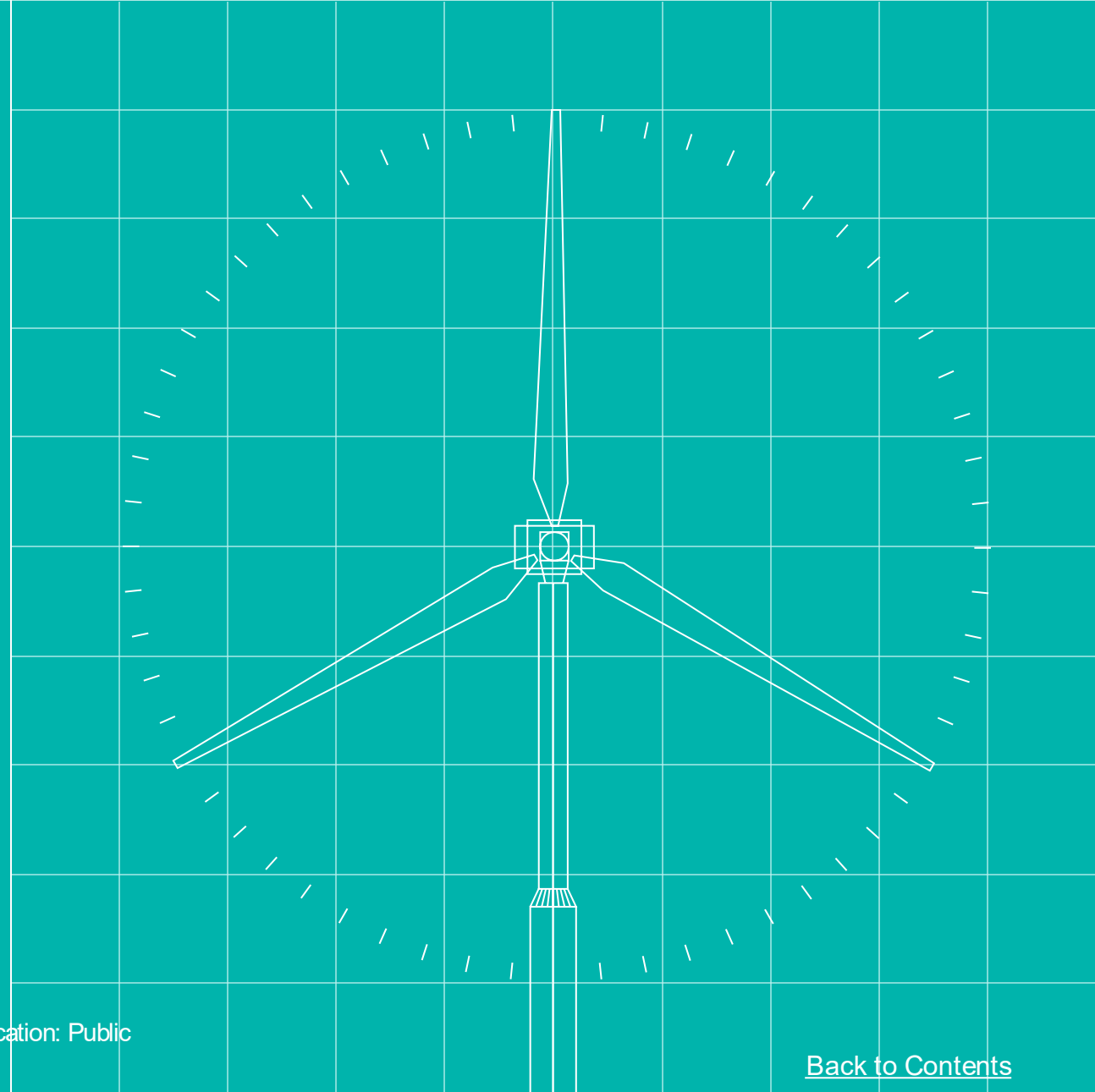
Document Classification: Public

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Section 0: Summary & Reference Documents



SIT NFT – Background & Context

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 stages is to non-functionally validate the new MHHS arrangements designed for the Programme Migration Phase 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 tests to be conducted based on the test scenarios and cases in scope.

For full background please see documents REF-07:

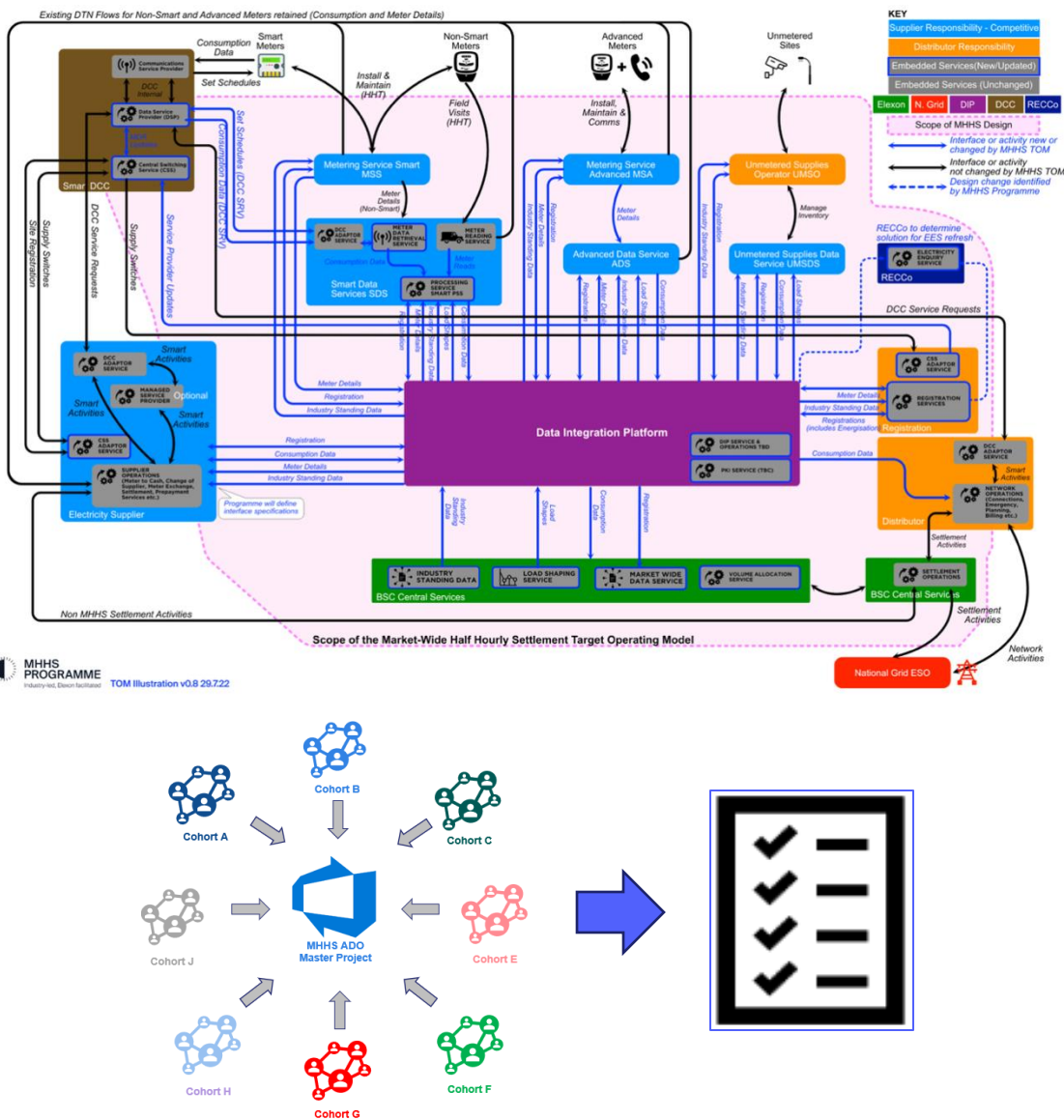
- [MHHS-DEL2127 SIT NFT Test Approach & Plan](#)

Testing was undertaken by establishing 8 ‘Cohorts’ each comprising the MHHS Market Roles required to exercise the design, E2E business processes and central systems within in the new MHHS arrangements.

SIT NFT was executed over 3 Themes, each with a goal of exercising a different non-functional aspects of the MHHS Design:

- **Theme 1 (DIP/Helix integration at volume):** 04-Mar-25 – 07-Mar-25
- **Theme 3 (DIP/PP resilience testing):** 01-Apr-25 – 11-Apr-25
- **Theme 2 (Operational Choreography):** 23-Apr-25 – 23-May-25

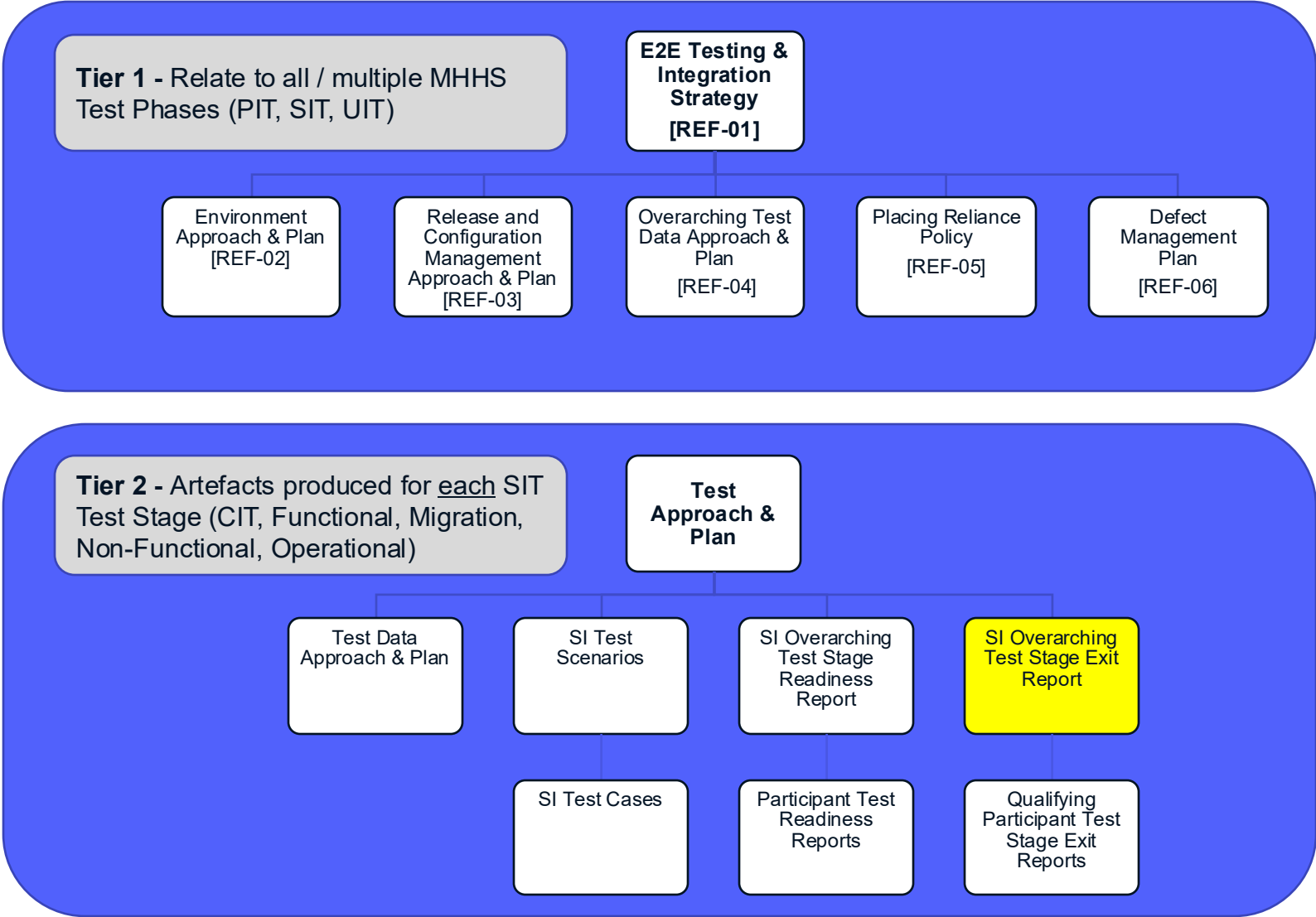
All MHHS SIT Participant testing was executed from and evidenced within the MHHS Azure DevOps test tool.



SIT NFT Overarching Exit Report – Reference Documents

REF No.	Document / Collaboration Base Link	Notes
REF-01	MHHS-DEL315 - E2E Testing & Integration Strategy	
REF-02	MHHS-DEL618 - Environment Approach & Plan	
REF-03	MHHS-DEL1089 - Release and Configuration Management Approach & Plan	
REF-04	MHHS-DEL813 - Overarching Test Data Approach and Plan	
REF-05	MHHS-DEL1064 - Placing Reliance Policy	
REF-06	MHHS-DEL466 - Defect Management Plan	
REF-07	MHHS-DEL2127 – SIT Non-Functional Test Approach and Plan	
REF-08	MHHS-DEL2376 – SIT Non-Functional Test Data Approach and Plan	
REF-09	SIT Non-Functional Test Scenarios and Test Cases (Theme 1)	
REF-10	SIT Non-Functional Test Scenarios and Test Cases (Theme 2)	
REF-11	SIT Non-Functional Test Scenarios and Test Cases (Theme 3)	
REF-12	MHHS-DEL030 - Programme Governance Framework	
REF-13	SIT Non-Functional DITL Guidance	
REF-14	MHHS-DEL3177 - SIT Non-Functional RTTM	

SIT NFT – MHHS Test Document Hierarchy



Key: = This Document

SIT Exit Reports

- MHHS SI Test will produce an overarching SI Exit Report for each SIT Stage which will be subject to MHHS Governance review and approval (**this document**)
- Qualifying Participants are required to provide Participant SIT stage exit reports for submission to the QAD Portal

Exit Report Content

- Summarising the overall position at the end of each SIT stage testing, covering:
 - Test Execution Status
 - Requirements Coverage
 - Dispensations resulting in tests set to 'Not Applicable'
 - Tests Passed with Observations or Workarounds
 - Defect Status
 - Open Defects / Work Off Plans
 - Exit Criteria Status
 - Exit Declarations

SIT Exit Reports Required

- **SIT Qualifying Participant (QP) Exit Reports** will cover all Market Roles and MPIDs taken through SIT for Participants that are subject to Code Body Qualification
 - The reports will be compiled by the programme, and sent to individual SIT Participants to sign a Test Exit Self Declaration (via DocuSign)
 - Qualifying Participants will then upload these to the QAD portal as evidence for their Qualification
 - 4 QP reports will be required for signing; 1) SIT F & M, 2) SIT NFT, 3) SIT Ops, 4) Regression Exit Declaration (Note: this last report will be an addendum to the SIT F&M QP Exit Report, which updates their position following SIT-A Settlement and Regression Test)
- Central Party / Non-Qualifying roles have been exercised by Cohort testing so will be covered in the **SIT SI Overarching Exit Reports** for each SIT stage:
 - **3 reports**; 1) SIT F & M Combined, 2) SIT NFT, 3) SIT Ops

Market Roles	Qualifying Role	SIT F & M Qualifying Participant Exit Report	SIT NFT Qualifying Participant Exit Report	SIT Ops Qualifying Participant Exit Report	PP Regression Exit Declarations (Report Addendum)	SIT SI Overarching Exit Reports (SIT F, M, NFT, Ops)
SUP	Yes	✓	✓	✓	✓	✓
SDS	Yes	✓	✓	✓	✓	✓
ADS	Yes	✓	✓	✓	✓	✓
MSS	Yes	✓	✓	✓	✓	✓
MSA	Yes	✓	✓	✓	✓	✓
UMSDS	Yes	✓	✓	✓	✓	✓
iDNO/DNO (REGS, LDSO and UMSO)	Yes	✓	✓	✓	✓	✓
EES	N/A	✗	✗	✗	✗	✓
DSP	N/A	✗	-	✗	✗	✓
CSS	N/A	✗	-	✗	✗	✓
MDS	N/A	✗	✗	✗	✗	✓
LSS	N/A	✗	✗	✗	✗	✓
VAS	N/A	✗	-	✗	✗	✓
DIP	N/A	✗	✗	✗	✗	✓
DTN	N/A	✗	✗	✗	✗	✓

SIT NFT and Operational Exit Reporting - Guidance

Qualifying Participant Exit Reports

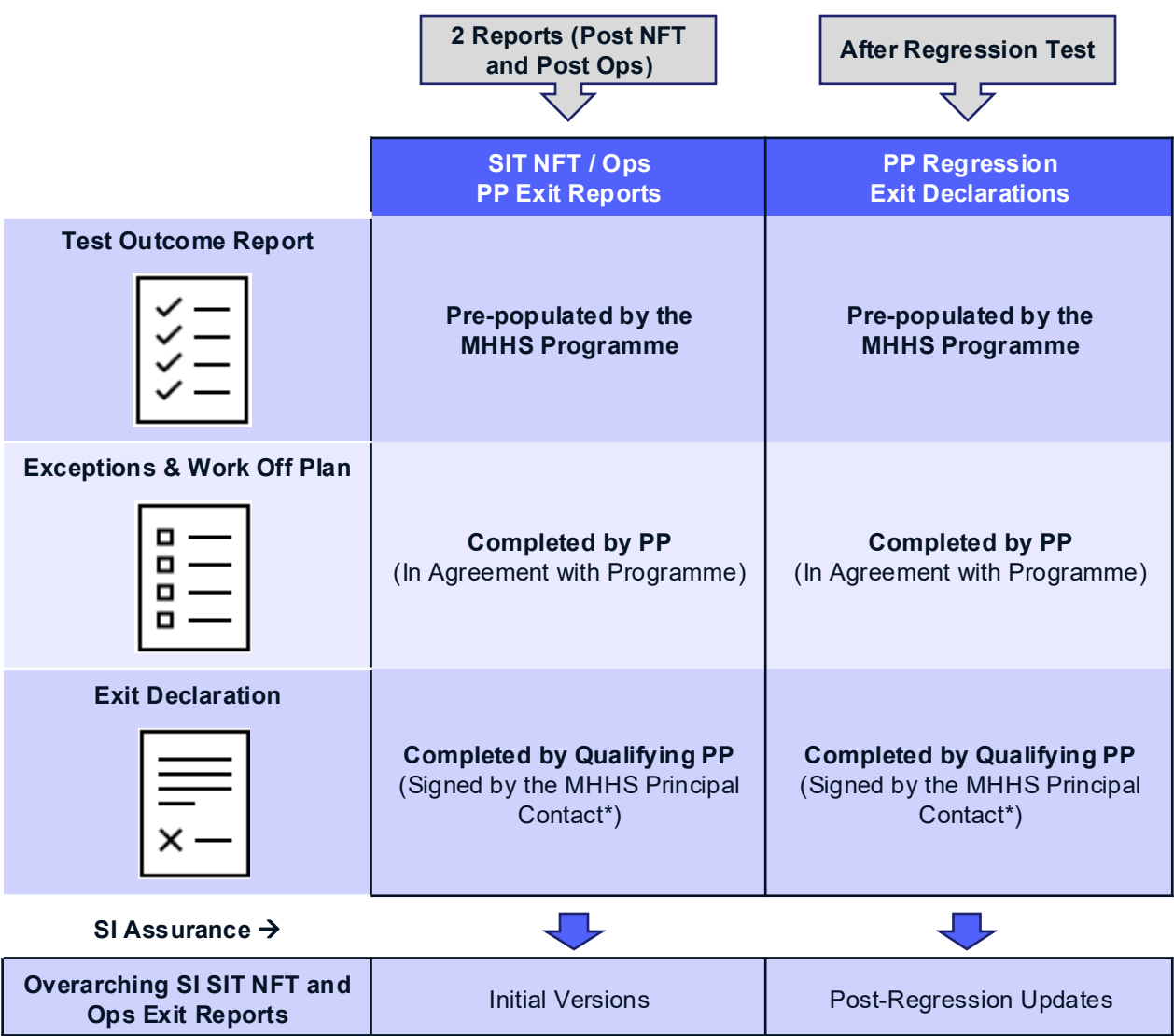
- The MHHS SI will pre-populate separate NFT and Ops PP Exit Reports with Test & Defect Outcomes (as per their end of NFT and Ops testing position)
- Participants are to agree test / defect work off plans with the SI and Code Bodies
- Participants will document agreed work off plans in their individual reports
- Participants will provide an Exit declaration within the report signed by the MHHS Principal Contact within the Qualifying Party organisation and return the report to SI for Assurance

Qualifying Participant Post-Regression Exit Declarations

- The MHHS SI will pre-populate a 'PP Exit Declarations with Regression Test & Defect Outcomes (as per their end of Regression position)
- Participants are to agree test / defect work off plans with the SI and Code Bodies
- Participants will document agreed work off plans in their 'PP Exit Declaration'
- Participants will obtain a signature from the MHHS Principal Contact within the Qualifying Party organisation and return the Declaration to SI for Assurance

SI Overarching Exit Reports (Subject to Governance Review / Approval)

1. SI will summarise the overall position for each Central Party, Cohort and Participant covering the status of:
 - a) Exit Criteria
 - b) Work Off Plans
 - c) Exit Declarations
2. SI will update the report with the outcomes from Settlements & Regression Test



**Principal Contact = The MHHS primary contact nominated by each organisation on the PPC records (Please contact your PPC representative if there has been a change to your nominated Principal Contact)*

SIT Exit Reports – Production, Review & Governance

SITStage / Workstream	Exit Report	Required For	Produced by	When Produced	QP Review	SITWG Review	Review (working days)	Post SIT-A Settlement / Regression Addendum?	Regression Addendum Produced when?	Report and Addendum Subject to SITWG / SITAG Approval	Associated Milestone
Functional & Migration	QP Exit Report	QP QAD Submission	Programme	After Cycle 3	Yes	N/A	10 Days (inc sign)	Yes	As individual QPs have met Regression Exit Criteria (Prioritised by Pathway) (est. issued within 2 days)	N/A	-
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	After Cycle 3	N/A	Yes	10 Days	Yes	1. When 2 Cohorts Met Exit Criteria / and post-SAT Regression complete (est. issued within 2 days) 2. Updated and published when remaining Cohorts have met Exit Criteria (est. issued within 2 days, per Cohort)	Yes	T2-TE-0850 / T2-TE-0800
NFT	QP Exit Report	QP QAD Submission	Programme	Stage End	Yes	N/A	10 Days (inc sign)	N/A	-	N/A	
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	Stage End	N/A	Yes	10 Days	N/A	-	Yes	T2-TE-0900
Operational Test	QP Exit Report	QP QAD Submission	Programme	As individual QPs have met Stage Exit Criteria (Prioritised by Pathway)	Yes	N/A	Pathway 2 & 3 PPs: 5 days All other PPs:10 Days (inc sign)	N/A	-	N/A	
	SIT SI Overarching Stage Report	SITWG Endorsement / SITAG Sign Off	Programme	1. When 2 Cohorts have Met Exit Criteria (est. issued within 5 days) 2. Updated and published when remaining Cohorts have met Exit Criteria (est. issued within 5 days, per Cohort)	N/A	Yes	10 Days	N/A	-	Yes	T2-TE-0950

SIT NFT SI Overarching Exit Report & Extract

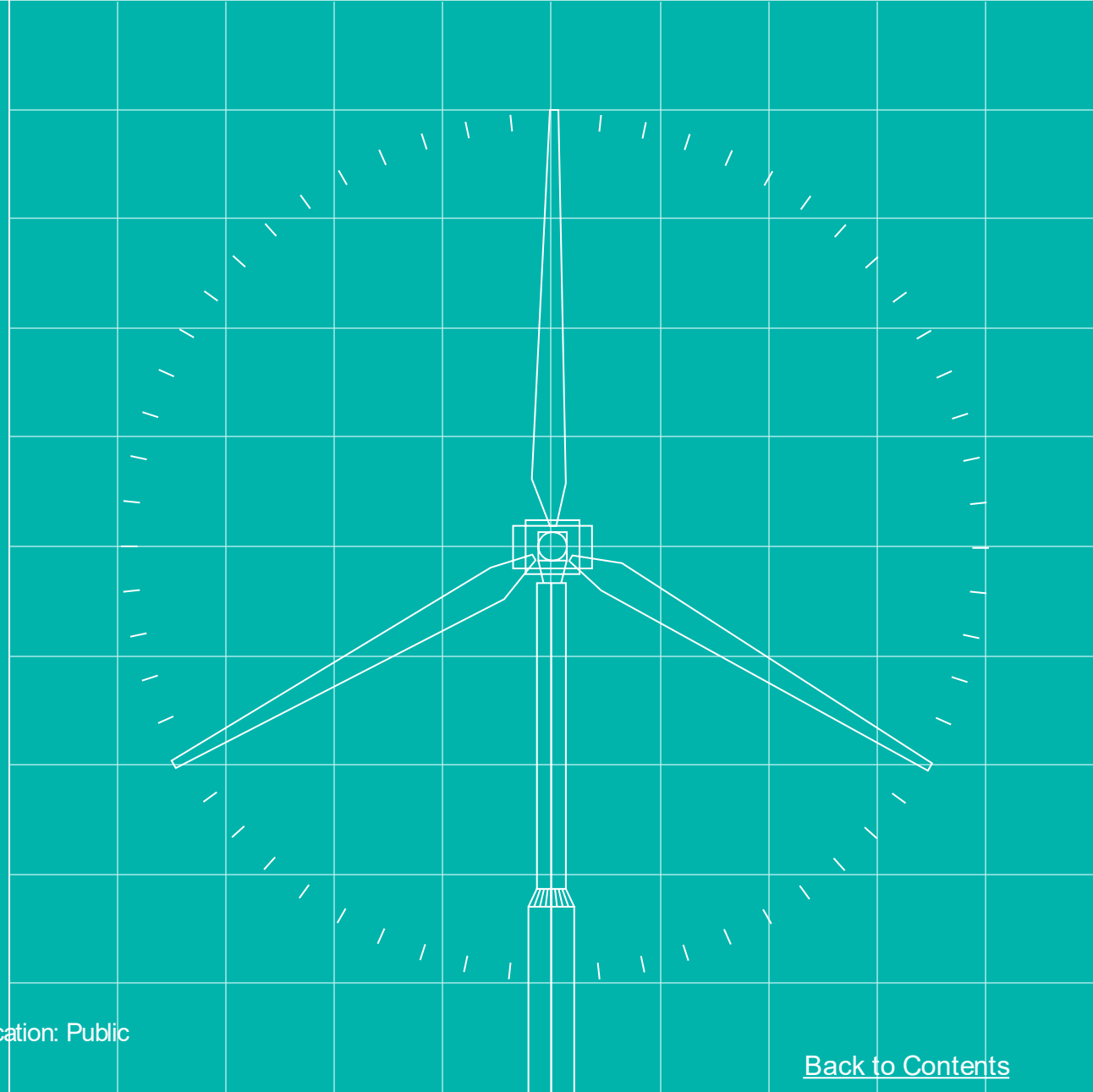
The Combined 'SIT NFT SI Overarching Exit Report' will consist of 2 corresponding artefacts (each with a unique document reference number):

#	Artefact	Summary
1	Exit Report (MHHS-DEL3958)	<ul style="list-style-type: none">• The report will provide a status of all SIT NFT tests and requirements associated with the MHHS Market Role(s) in SIT at the close of NFT. It will also provide a summary of all defects raised and resolved during that testing (note this will be for the 3rd Party testing delegate where the placing reliance policy was invoked)• When the draft report is complete it will be published to SITWG for a 10-day review period
2	Test & Defect Extract (MHHS-DEL3959)	<ul style="list-style-type: none">• Due to the number of SIT NFT tests executed and defects encountered during testing it is impractical to list them all in the report itself, instead the report will summarise the position at the end of SIT NFT and refer to an underpinning MS Excel extract containing the test, requirement and defects status for SIT Participants

SIT NFT SI Overarching Exit Report Sections and Extract Contents

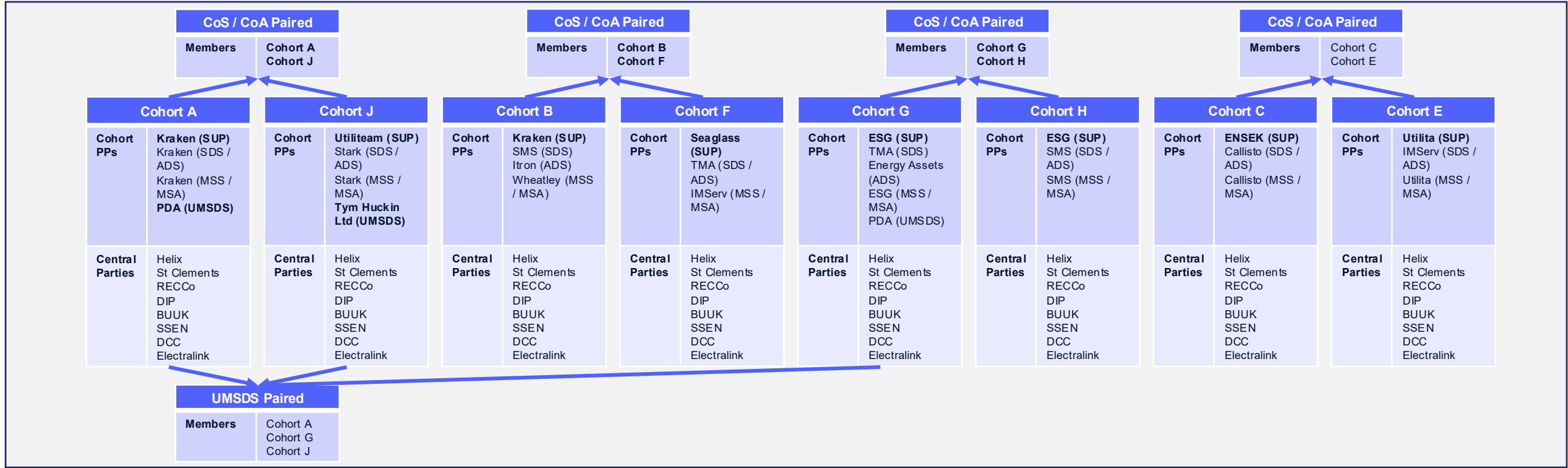
#	Artefact	Section / Extract	Notes
1	Exit Report	Background and Document Summary	Background, reference documents, document hierarchy, guide to Exit Reporting, guide to the structure and approach to Exit Reports, review and approval
		SIT Participants, Market Roles and Cohort Membership	This will include Central Parties, Qualifying Parties, where testing was delegated to any 3 rd Party Orgs, and Test Participant membership in Cohorts
		SIT NFT Test Scope	<ul style="list-style-type: none"> Summarises the scope of SIT NFT breaking down details by SIT NFT Theme
		SIT NFT Test & Requirements Status Summary	<ul style="list-style-type: none"> This will summarise the status of Tests at the end of SIT NFT Provide a Summary of RTTM Based Test and Requirement Status by Central Party, including any exceptions Provide a Summary of RTTM Based Test and Requirement Status by Qualifying Party, including any exceptions Section will refer to details within the Test & Defect Extract
		Tests Passed with Observations or Workarounds	This will summarise tests passed with Observations or Work Around (referring to the extract for details)
		SIT NFT Defect Status Summary	<ul style="list-style-type: none"> This summarises the status of Defects Raised and Resolved by the Test Participants (3rd Party Test Participants in the case of Qualifying Parties who have delegated testing by adopting the Placing Reliance Policy) Any exceptions (i.e. open defect) and associated work off plans (if any) Section will refer to details within the Test & Defect Extract
		Exit Criteria Status	<ul style="list-style-type: none"> Shown grouped by Cohort (Exit Criteria will be listed by Qualifying Cohort Members, LDSO and Central Party) Separately for Theme 1, Theme 2 and Theme 3
		Approach to Lessons Learned	Programme will outline the proposed approach to Post-SIT Phase Retrospective and Lessons Learned for Future Industry Programme
		SITAG Recommendation	This will be a recommendation declaration for SITAG
2	Test & Defect Extract	RTTM Based Test & Requirement Status Report (Multiple tabs)	A list of all Requirements in-scope, mapped to test stage test cases and MHHS Market Roles, with a summation status for all Cohorts and individual Role based status for Central Participants and Qualifying Participants
		Defects Extract	A list of all defects <u>raised and resolved</u> by SIT Participants, including the status of the defect at the end of the stage

Section 1: SIT Participants, Market Roles and Cohort Membership



SIT NFT – Cohort Testing

- Testing was undertaken by establishing 8 Main ‘Cohorts’ each comprising the MHHS Market Roles required to exercise the design , E2E business processes and central systems within in the new MHHS arrangements
- Each Cohort comprised of a SIT Participant acting in each of the MHHS supplier and data service roles (SUP, SDS, ADS, MSS, MSA and UMSDS)
- To enable Change of Agent and Change of Supplier theme tests, the main Cohorts were paired to enable E2E MPAN gaining and losing scenarios
- 3 Cohorts (A, G and J) service Unmetered sites in their production portfolios and therefore included Unmetered test cases in scope. A Paired Cohort was also established for these Cohorts to carry out gaining and losing scenarios and specifically exercise the UMSDS test participant requirements
- Central Parties (Helix, RECCo, DIP) were members of each Cohort, with their MHHS requirements, designs and development being exercised by the testing of e ach of the 'Main' and 'Paired' Cohorts E2E tests
- 2 LDSO parties (SSEN & BUUK) were also ‘Core Provider’ members of each Cohort operating in the LDSO, UMSO and REGS roles (the latter via St Clements / MPRS). Again, with their MHHS requirements, designs and development being exercised by the testing of each of the 'Main' and 'Paired' Cohort tests



SIT NFT - Qualifying Participants, Roles and associated Testing Participants (1 of 2)

24 Electricity Industry Participants are supporting their MHHS Market Role Code Body Qualification via the MHHS SIT phase.

In some cases, the Qualifying Party (QP) organisation has undertaken that testing themselves, but others have elected to adopt the 'MHHS Placing Reliance Policy' [\[REF-05\]](#) which enables them to delegate some, or all, of their testing responsibility to a 3rd Party organisation to execute on their behalf.

The following table (over 2 pages) identifies; each Qualifying Participant, which roles they are Qualifying via the SIT NFT stages, whether they have delegated testing to a 3rd Party for that role, and which 'Testing Participant Organisation' executed the testing (within which Cohort(s)).

Please note that in some cases 'Testing Party Organisations' may have operated in multiple Market Roles and / or multiple Cohorts.

Qualifying Party (QP)	MHHS Market Roles	Cohort(s)	Testing Delegated to 3rd Party?	Testing Participant Organisation
British Gas Trading Ltd (TILL)	SUP	Cohort C	Yes	ENSEK
British Gas Trading Ltd (BGAS)	MSS	Cohort C	Yes	Callisto
British Gas Trading Ltd (BGAS)	MSA	Cohort C	Yes	Callisto
Callisto Data Limited (ACCU)	SDS	Cohort C	No	Callisto
Callisto Data Limited (MDSL)	ADS	Cohort C	No	Callisto
E (Gas and Electricity) Ltd (EGDX)	SUP	Cohort G	Yes	ESG
E (Gas and Electricity) Ltd (EGDX)	SUP	Cohort H	Yes	ESG
E.ON Next Energy Ltd (EOND)	SUP	Cohort B	Yes	Kraken
Edgware Energy Ltd (EDGE)	SUP	Cohort J	Yes	Utiliteam
EDF Energy Customers Ltd (Business Solution) (LOND)	MSA	Cohort G	Yes	ESG
OVO Energy Limited (IHTL)	MSS	Cohort G	Yes	ESG
B GLOBAL METERING LIMITED T/A Energy Assets (BMET)	MSS	Cohort G	Yes	ESG
B GLOBAL METERING LIMITED T/A Energy Assets (BMET)	MSA	Cohort G	Yes	ESG
B GLOBAL METERING LIMITED T/A Energy Assets (EAHH)	ADS	Cohort G	No	Energy Assets
IMServ Europe Ltd. (UKDC)	ADS	Cohort E	No	IMServ
IMServ Europe Ltd. (UKDC)	SDS	Cohort E	No	IMServ
IMServ Europe Ltd. (UKDC)	MSS	Cohort F	No	IMServ
IMServ Europe Ltd. (UKDC)	MSA	Cohort F	No	IMServ
Octopus Energy Limited (MRCY)	SUP	Cohort A	Yes	Kraken
Octopus Energy Services Ltd (OESL)	MSS	Cohort A	Yes	Kraken
Octopus Energy Services Ltd (OESL)	MSA	Cohort A	Yes	Kraken
Kraken Data Services (KTDS)	ADS	Cohort A	No	Kraken
Kraken Data Services (KTDS)	SDS	Cohort A	No	Kraken

SIT NFT - Qualifying Participants, Roles and associated Testing Participants (2 of 2)

Qualifying Party	MHHS Market Roles	Cohort(s)	Testing Delegated to 3rd Party?	Testing Participant Organisation
Npower Commercial Gas Limited (NATP)	ADS	Cohort B	Yes	Ittron
Npower Commercial Gas Limited (NATP)	MSA	Cohort B	Yes	Wheatley
E.ON UK Energy Service Ltd (EMEB & MIDE)	MSS	Cohort B	Yes	Wheatley
Power Data Associates Ltd (PDAL)	UMSDS	Cohort A	No	PDA
Power Data Associates Ltd (PDAL)	UMSDS	Cohort G	No	PDA
SMS Energy Services Ltd (UPLD)	SDS	Cohort B	No	SMS
SMS Energy Services Ltd (UPLD)	ADS	Cohort H	No	SMS
SMS Energy Services Ltd (UPLD)	SDS	Cohort H	No	SMS
SMS Energy Services Ltd (UPLD)	MSS	Cohort H	No	SMS
SMS Energy Services Ltd (UPLD)	MSA	Cohort H	No	SMS
Stark Connect Ltd (SWEB)	MSS	Cohort J	No	Stark
Stark Connect Ltd (SWEB)	MSA	Cohort J	No	Stark
Stark Software International (SSIL)	ADS	Cohort J	No	Stark
Stark Software International (SSIL)	SDS	Cohort J	No	Stark
TMA (UDMS)	ADS	Cohort F	No	TMA
TMA (UDMS)	SDS	Cohort F	No	TMA
TMA (UDMS)	SDS	Cohort G	No	TMA
Tym Huckin Ltd (ICTL)	UMSDS	Cohort J	No	Tym Huckin
Unify Energy (TLWD)	SUP	Cohort F	Yes	Seaglass
Utilita Energy Limited (GETW)	SUP	Cohort E	No	Utilita
Utilita Energy Limited (UMOL)	MSS	Cohort E	No	Utilita
Utilita Energy Limited (UMOL)	MSA	Cohort E	No	Utilita
Southern Electric Power Distribution Plc (SOUT)	REGS	All	Yes	St Clements
Southern Electric Power Distribution Plc (SOUT)	LDSO	All	No	SSEN
Southern Electric Power Distribution Plc (SOUT)	UMSO	All	No	SSEN
The Electricity Network Company Ltd (BUUK) (ETCL)	REGS	All	Yes	St Clements
The Electricity Network Company Ltd (BUUK) (ETCL)	LDSO	All	No	BUUK
The Electricity Network Company Ltd (BUUK) (ETCL)	UMSO	All	No	BUUK

SIT NFT - Main / Paired Cohort 'Testing Participant Organisation' Membership (1 of 4)

The following table (over 4 pages) details the 23 Cohort 'Testing Participant Organisations' and their Cohort membership (grouped by Cohort Pairing).

The table identifies; DIP Role Code, DIP Participant ID, Market Participant ID, and Market Participant Role Code which was used in the SIT Test Environment.

Note that in some cases 'Testing Participant Organisations' may have operated in multiple Market Roles and / or multiple Cohorts.

Cohort / CP	DIP_Role_Code	Market_Participant_Id	Market_Participant_Role_Code	Testing Participant Organisation
Cohort A	ADS	KTDS	O	Kraken
Cohort A	SDS	KTDS	N	Kraken
Cohort A	SUP	MRCY	X	Kraken
Cohort A	MSS	OESL	S	Kraken
Cohort A	MSA	OESL	T	Kraken
Cohort A	UMSDS	PDAL	Q	PDA
Cohort J	SUP	EDGE	X	Utiliteam
Cohort J	MSS	SWEB	S	Stark
Cohort J	MSA	SWEB	T	Stark
Cohort J	ADS	SSIL	O	Stark
Cohort J	SDS	SSIL	N	Stark
Cohort J	UMSDS	ICTL	Q	Tym Huckin
Core Provider	REGS	ETCL	P	St Clements
Core Provider	LDSO	ETCL	R	BUUK
Core Provider	UMSO	ETCL	3	BUUK
Central Party	EES	ECOE	L	RECCo / C&C
Central Party	DSP	N/A	N/A	DCC
Central Party	CSS	N/A	N/A	DCC
Central Party	MDS	EMDS	G	Helix
Central Party	LSS	ELSS	G	Helix
Central Party	VAS	EVAS	G	Helix
Central Party	DIP	N/A	N/A	Avanade
Core Provider	REGS	SOUT	P	St Clements
Core Provider	LDSO	SOUT	R	SSEN
Core Provider	UMSO	SOUT	3	SSEN

SIT NFT - Main / Paired Cohort 'Testing Participant Organisation' Membership (2 of 4)

Cohort / CP	DIP_Role_Code	Market_Participant_Id	Market_Participant_Role_Code	Testing Participant Organisation
Cohort B	SUP	MRCY	X	Kraken
Cohort B	MSS	EMEB	S	Wheatley
Cohort B	ADS	NATP	O	Ittron
Cohort B	MSA	NATP	T	Wheatley
Cohort B	SDS	UPLD	N	SMS
Cohort F	MSS	UKDC	S	IMServ
Cohort F	MSA	UKDC	T	IMServ
Cohort F	ADS	UDMS	O	TMA
Cohort F	SDS	UDMS	N	TMA
Cohort F	SUP	TLWD	X	Seaglass
Core Provider	REGS	ETCL	P	St Clements
Core Provider	LDSO	ETCL	R	BUUK
Core Provider	UMSO	ETCL	3	BUUK
Central Party	EES	ECOE	L	RECCo / C&C
Central Party	DSP	N/A	N/A	DCC
Central Party	CSS	N/A	N/A	DCC
Central Party	MDS	EMDS	G	Helix
Central Party	LSS	ELSS	G	Helix
Central Party	VAS	EVAS	G	Helix
Central Party	DIP	N/A	N/A	Avanade
Core Provider	REGS	SOUT	P	St Clements
Core Provider	LDSO	SOUT	R	SSEN
Core Provider	UMSO	SOUT	3	SSEN

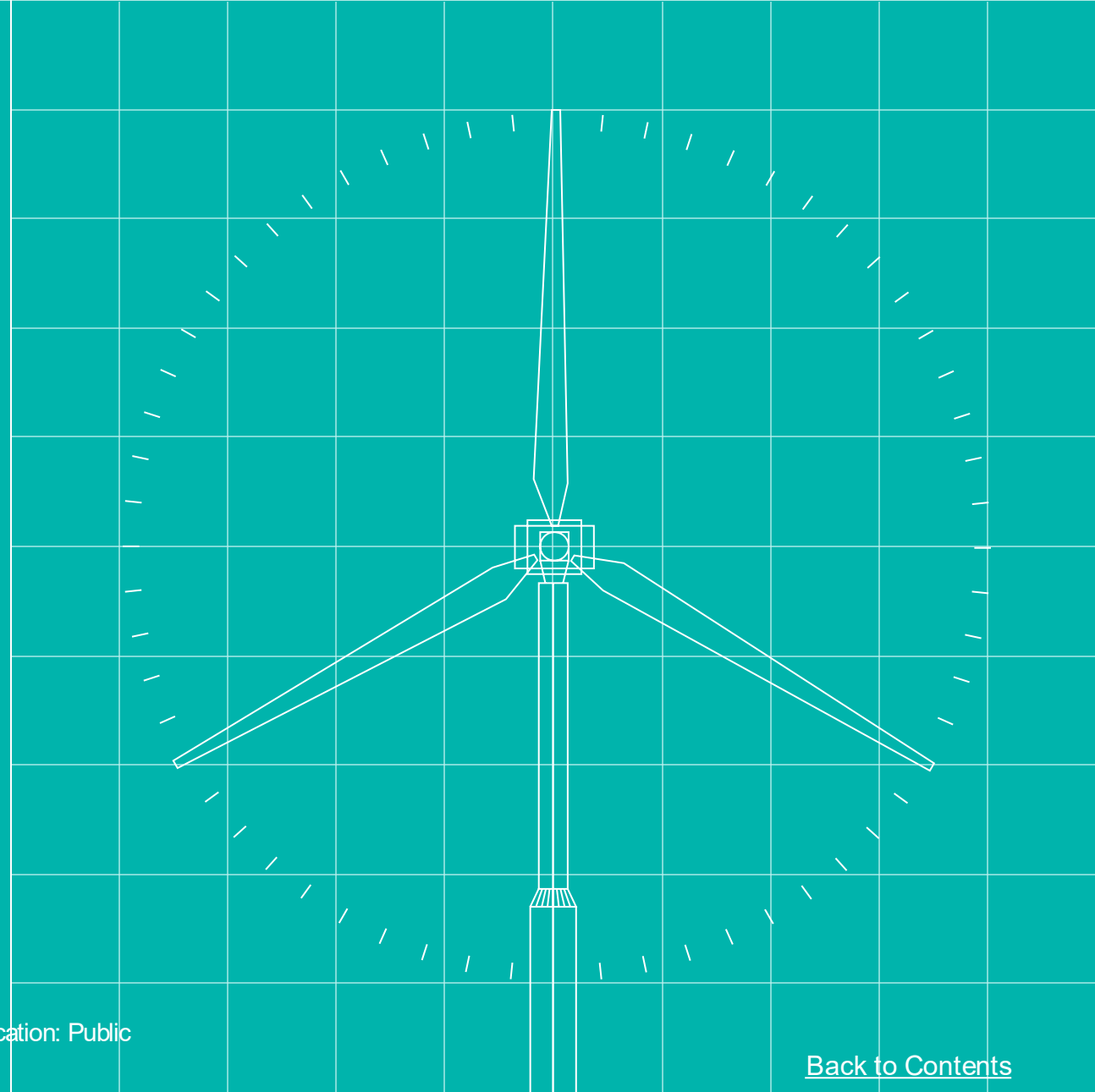
SIT NFT - Main / Paired Cohort 'Testing Participant Organisation' Membership (3 of 4)

Cohort / CP	DIP_Role_Code	Market_Participant_Id	Market_Participant_Role_Code	Testing Participant Organisation
Cohort C	MSS	BGAS	S	Callisto
Cohort C	MSA	BGAS	T	Callisto
Cohort C	SUP	TILL	X	ENSEK
Cohort C	SDS	ACCU	N	Callisto
Cohort C	ADS	MDSL	O	Callisto
Cohort E	ADS	UKDC	O	IMServ
Cohort E	SDS	UKDC	N	IMServ
Cohort E	SUP	GETW	X	Utilita
Cohort E	MSS	UMOL	S	Utilita
Cohort E	MSA	UMOL	T	Utilita
Core Provider	REGS	ETCL	P	St Clements
Core Provider	LDSO	ETCL	R	BUUK
Core Provider	UMSO	ETCL	3	BUUK
Central Party	EES	ECOE	L	RECCo / C&C
Central Party	DSP	N/A	N/A	DCC
Central Party	CSS	N/A	N/A	DCC
Central Party	MDS	EMDS	G	Helix
Central Party	LSS	ELSS	G	Helix
Central Party	VAS	EVAS	G	Helix
Central Party	DIP	N/A	N/A	Avanade
Core Provider	REGS	SOUT	P	St Clements
Core Provider	LDSO	SOUT	R	SSEN
Core Provider	UMSO	SOUT	3	SSEN

SIT NFT - Main / Paired Cohort 'Testing Participant Organisation' Membership (4 of 4)

Cohort / CP	DIP_Role_Code	Market_Participant_Id	Market_Participant_Role_Code	Testing Participant Organisation
Cohort G	SUP	CILI	X	ESG
Cohort G	MSS	IHTL	S	ESG
Cohort G	MSA	BMET	T	ESG
Cohort G	ADS	EAHH	O	Energy Assets
Cohort G	UMSDS	PDAL	Q	PDA
Cohort G	SDS	UDMS	N	TMA
Cohort H	SUP	EGDX	X	ESG
Cohort H	ADS	UPLD	O	SMS
Cohort H	SDS	UPLD	N	SMS
Cohort H	MSS	UPLD	S	SMS
Cohort H	MSA	UPLD	T	SMS
Core Provider	REGS	ETCL	P	St Clements
Core Provider	LDSO	ETCL	R	BUUK
Core Provider	UMSO	ETCL	3	BUUK
Central Party	EES	ECOE	L	RECCo / C&C
Central Party	DSP	N/A	N/A	DCC
Central Party	CSS	N/A	N/A	DCC
Central Party	MDS	EMDS	G	Helix
Central Party	LSS	ELSS	G	Helix
Central Party	VAS	EVAS	G	Helix
Central Party	DIP	N/A	N/A	Avanade
Core Provider	REGS	SOUT	P	St Clements
Core Provider	LDSO	SOUT	R	SSEN
Core Provider	UMSO	SOUT	3	SSEN

Section 2: SIT NFT Test Scope



SIT NFT Test Scope

SIT NFT Test Scope encompassed three distinct test phases which are described in more detail in the following slides

SIT NFT Theme 1

SIT NFT Theme 1 was focused on direct integration between DIP and Helix at Production level volumes. This was accomplished via a bespoke injection solution injecting consumption messages directly into the DIP, with Helix implemented to the point of message ingress and Avanade provided Supplier and LDSO stubs implemented. The following test executions were successfully completed;

Peak Load Testing

- 3 X one hour runs
- Target Transactions per second (TPS) 1585
- Achieved TPS of 1650 (Equates to approximately 100k Transactions per minute, 5.94 million Transactions per hour)

Soak Load Testing

- 1 X 8 hour run
- Target TPS 1042 (Two thirds peak load)
- Achieved TPS 1123
- Over full run approx. 32 million messages processed successfully exceeding secondary target of processing at least 30M messages in a standard day (Expected volumes on system)

SIT NFT Theme 2

This phase was focused on Operational Choreography – a limited Day in the Life dry run focusing on windows of processing and proving viable co-existence of all PPs across the shared landscape. The goal was to validate correctness of overall days processing based on aggregate message counts reconciled against expected modelled values

- The market processes selected to be part of these interactions were a subset of all the processes that have been impacted by the market core design, covering key roles and meter relationships
- There were constraints on this testing based on the available amount of industry aligned MPANs in the dataset available in the environment, which meant that it was never focused on volume but limited concurrency. Also, constraints regarding exclusive environment access due to concurrent SIT-OPs testing in the same environment – which limited the viable window for test execution

SIT NFT Theme 2 - continued

- Initially planned to be four days execution as the shortest load shaping window, on further analysis it was determined that since the MPANs involved lacked historical data that load shaping would not actually be executed in any meaningful way and by day 3 all roles and message flows had been exercised in all directions, so testing was determined sufficient by day 3 given constraints on the execution window due to SIT-B co-existence with Ops testing in the same environment
- Given the aggregate nature of the overall outcome determination, it was not possible to arrive at a success determination until a retrospective investigative process had been conducted to resolve some instances of non-exact message count reconciliation on each day of execution. Following this, and the Programme determination of a successful phase outcome, all contributing test processes in ADO for Theme 2 have been set to passed

SIT NFT Theme 3

Focused on Resilience aspects of individual PP's systems

- Specifically, resilience between the PPs DIP adapter instances and the DIP during occasions when DIP is unavailable, ensure 0% message loss
- DIP unavailability was simulated via coordination with Avanade resources
- Resilience was exercised on a per role basis per cohort except for SIT involved LDSOs where one test was run to cover REGS/UMSO/LDSO as all connect through the same DIP Adapter where the resilience is provided

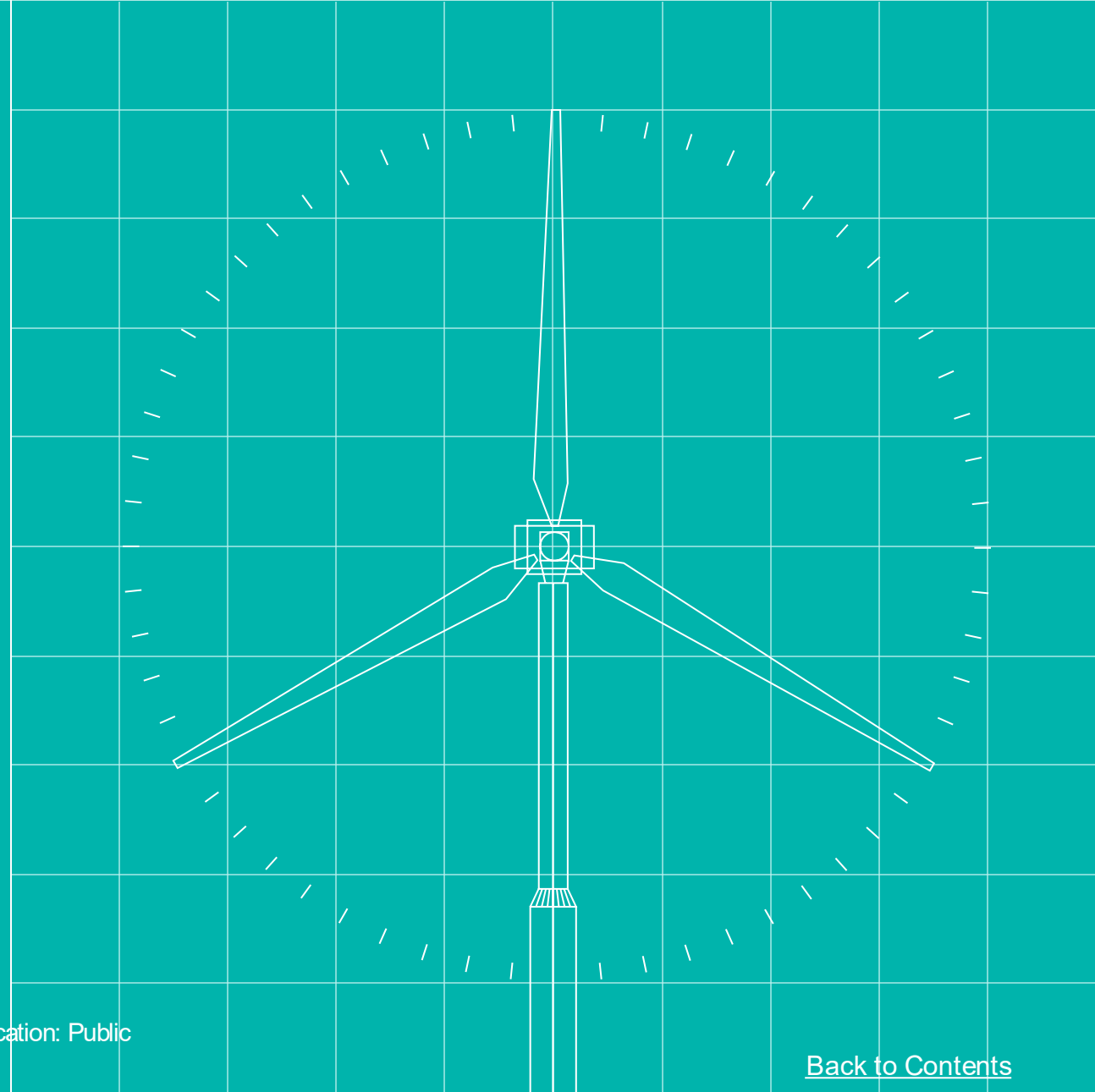
SIT NFT Test Case Coverage and Descoped Tests

SIT NFT differed slightly from previous Functional and Migration phases in that

- All PPs executed the same planned tests and obtained the same level of coverage
- All PPs achieved 100% pass rates for all executed tests
- There were no descoped tests for specific Participants, only a general descoping of the originally planned Day 4 activities for Theme 2 for all PPs, since this day's activities were deemed unnecessary following further analysis of the situation as explained on the previous slide
 - A summary of this is below

ADO Test Cases	Theme 1	Theme 2	Theme 3
In Scope Tests	4	254	44
Descoped Tests	0	93	0

Section 3: SIT NFT Test & Requirements Status Summary



SIT NFT – RTTM Test & Requirements Status Guidance

RTTM Based Participant Test Status Reporting

The SI Test Assurance team created and maintained a Requirements to Test Traceability Matrix (RTTM) spreadsheet artefact, this maps each MHHS SIT NFT requirement to each test case, and maps each Requirement / Test Case record to each MHHS market role which was required to demonstrate the requirement had been successfully met in SIT.

As there is a "many-to-many" relationship of requirements and test cases, and in a lot of cases multiple MHHS Market roles mapped to certain requirements, there are some very large mapping table in the various report tabs within the 'Test & Defect Extract' ('Theme1RolesReqsTestsStatus', 'Theme2RolesReqsTestsStatus', 'Theme3RolesReqsTestsStatus').

The 'ThemeXRolesReqsTestsStatus' report tabs, includes columns recording the end of SIT NFT test status (by Theme) for:

- a) Central Parties mapped to requirements in the RTTM
- b) Qualifying Participants (with Qualifying Roles, Test Participant Organisations and Cohort Membership identified)

Test / Requirement status is recorded in the 'ThemeXRolesReqsTestsStatus' report tab for each Participant (by Theme), as follows:

- a) 'Passed', 'Failed', 'Blocked', 'Not Run'
- b) 'Optional'
- c) Req'd (On-Hold – Settlement SIT-A)

This sub-section of the Exit Report summarises the RTTM Unique Test / Requirement status for each Central Party and Qualifying Party, and also reports on the following exceptions where applicable to the participant (these are reported on by SIT NFT Theme):

- a) Unique Test cases that were not executed (none for SIT NFT)
- b) Unique Requirements mapped to the participant roles were not demonstrated as Met and the associated SI Test Assurance status (None for SIT NFT)

SIT Functional RTTM Test & Requirements Coverage Exceptions (as at SIT NFT End)

Optional Test Cases (Not Executed)

There were no Optional Test cases for any QPs

Requirement Exceptions

There were no requirements exceptions for any QPs

(See ‘Test & Defect Extract’ for details)

(See ‘Test & Defect Extract’ for Details & Requirement Coverage)

SIT NFT Theme 1 RTTM Test & Requirements Status – Central Parties (as at SIT NFT end)

Central Party Test & Requirement Reporting

The table below provides a status summary of the unique tests associated with the Central Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non- Functional <u>Test Case</u> Status (Theme 1)						% Passed (T1)	Total Tests Required to Complete SIT Stage	% Executed (T1 Exit)	% Passed (T1 Exit)
		Not Run	Paused	Blocked	Failed	Passed	Total *				
Elxon (MDS, LSS, VAS, ECS, ISD)	Elxon Helix					4	4	100%	4	100%	100%
DIP	Avanade					4	4	100%	4	100%	100%

Unique Test Case reports - see the 'T1UniqueTCStatus(ElxonHelix)' and 'T1UniqueTCStatus(DIP)' tabs in the 'Test & Defect Extract'

The table below provides a status summary of the unique requirement coverage associated with the Central Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Functional <u>Requirement</u> Status (Cycles 1, 2 & 3 End)					% Passed (T1)
		Not Tested	Blocked	Failed	Passed	Total Reqs	
Elxon (MDS, LSS, VAS, ECS, ISD)	Elxon Helix				22	22	100%
DIP	Avanade				22	22	100%

Unique Requirement reports - see the 'T1UniqueReqStatus(ElxonHelix)' and 'T1UniqueReqStatus(DIP)' tabs in the 'Test & Defect Extract'

SIT NFT Theme 2 RTTM Test & Requirements Status – Central Parties (as at SIT NFT end)

Central Party Test & Requirement Reporting

The table below provides a status summary of the unique tests associated with the Central Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional <u>Test Case</u> Status (Theme 2)							% Passed (T2)	Total Tests Required to Complete SIT Stage	% Executed (T2 Exit)	% Passed (T2 Exit)
		N/A (Optional)	Not Run	Paused	Blocked	Failed	Passed	Total *				
RECCo (EES)	RECCo						6	6	100%	6	100%	100%
Elaxon (MDS, LSS, VAS, ECS, ISD)	Elaxon Helix						6	6	100%	6	100%	100%
DIP	Avanade						15	15	100%	15	100%	100%

**Total Number of Tests for Market Role(s) mapped in the RTTM*

Unique Test Case reports - see the 'T2UniqueTCStatus(RECCo)', 'T2UniqueTCStatus(DIP)' and 'T2UniqueTCStatus(ElaxonHelix)' tabs in the 'Test & Defect Extract'

The table below provides a status summary of the unique requirement coverage associated with the Central Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional <u>Requirement</u> Status (Theme 2)					% Passed (T2)
		Not Tested	Blocked	Failed	Passed	Total Reqs*	
RECCo (EES)	RECCo				27	27	100%
Elaxon (MDS, LSS, VAS, ECS, ISD)	Elaxon Helix				14	14	100%
DIP	Avanade				5	5	100%

**Total Number of Requirements for Market Role(s) mapped in the RTTM*

Unique Requirement reports - see the 'T2UniqueReqStatus(RECCo)', 'T2UniqueReqStatus(DIP)' and 'T2UniqueReqStatus(ElaxonHelix)' tabs in the 'Test & Defect Extract'

SIT NFT Theme 2 RTTM Test Coverage Status – Qualification Participants 1 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Test Status (1 of 2)

The table below provide a status summary of the unique tests associated with the Qualification Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Test Case Status (Theme 2)						% Passed (T2)	Total Tests Required to Complete SIT Stage	% Executed (SIT T2 Exit)	% Passed (SIT T2 Exit)
		Not Run	Paused	Blocked	Failed	Passed	Total*				
British Gas Trading Ltd (SUP)	ENSEK					17	17	100%	17	100%	100%
British Gas Trading Ltd (MSS)	Callisto					6	6	100%	6	100%	100%
British Gas Trading Ltd (MSA)	Callisto					4	4	100%	4	100%	100%
Callisto Data Limited (SDS)	Callisto					10	10	100%	10	100%	100%
Callisto Data Limited (ADS)	Callisto					5	5	100%	5	100%	100%
E (Gas and Electricity) Ltd (SUP)	ESG					20	20	100%	20	100%	100%
E.ON Next Energy Ltd (SUP)	KRAKEN					17	17	100%	17	100%	100%
Edgware Energy Ltd (SUP)	Utiliteam					20	20	100%	20	100%	100%
EDF Energy Customers Ltd (Business Solution) (MSA)	ESG					4	4	100%	4	100%	100%
Ovo Energy Limited (MSS)	ESG					6	6	100%	6	100%	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSS)	ESG					6	6	100%	6	100%	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSA)	ESG					4	4	100%	4	100%	100%
B GLOBAL METERING LIMITED T/A Energy Assets (ADS)	Energy Assets					5	5	100%	5	100%	100%
IMServ Europe Ltd. (ADS)	IMServ					5	5	100%	5	100%	100%
IMServ Europe Ltd. (SDS)	IMServ					10	10	100%	10	100%	100%
IMServ Europe Ltd. (MSS)	IMServ					6	6	100%	6	100%	100%
IMServ Europe Ltd. (MSA)	IMServ					4	4	100%	4	100%	100%
Octopus Energy Limited (SUP)	KRAKEN					20	20	100%	20	100%	100%
Octopus Energy Services Ltd (MSS)	KRAKEN					6	6	100%	6	100%	100%
Octopus Energy Services Ltd (MSA)	KRAKEN					4	4	100%	4	100%	100%
Kraken Data Services (ADS)	KRAKEN					5	5	100%	5	100%	100%
Kraken Data Services (SDS)	KRAKEN					10	10	100%	10	100%	100%

*Total Number of Tests for Market Role(s) being Qualified via SIT (This excludes Tests where a Dispensation was granted, and the TC was set to N/A)

Test Case Exceptions (Test Cases set to N/A) - in circumstances where for valid reasons a Participant is unable to execute an assigned test case, the SIT Defect Management policy allows for a 'Dispensation' defect to be raised declaring the reasons why. Upon programme approval, the Cohort is permitted to set the test case to N/A.

SIT NFT Theme 2 RTTM Test Coverage Status – Qualification Participants 2 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Test Status (2 of 2)

The table below provide a status summary of the unique tests associated with the Qualification Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Test Case Status (Theme 2)						% Passed (T2)	Total Tests Required to Complete SIT Stage	% Executed (SIT T2 Exit)	% Passed (SIT T2 Exit)
		Not Run	Paused	Blocked	Failed	Passed	Total*				
Npower Commercial Gas Limited (ADS)	Itron					5	5	100%	5	100%	100%
Npower Commercial Gas Limited (MSA)	Wheatley					4	4	100%	4	100%	100%
Itron Metering Solution UK Ltd (ADS)	Itron Metering Solution UK Ltd					5	5	100%	5	100%	100%
E.on UK Energy Services (MSS)	Wheatley					6	6	100%	6	100%	100%
Power Data Associates Ltd (UMSDS)	Power Data Associates Ltd					3	3	100%	3	100%	100%
SMS Energy Services Ltd (ADS)	SMS					5	5	100%	5	100%	100%
SMS Energy Services Ltd (SDS)	SMS					10	10	100%	10	100%	100%
SMS Energy Services Ltd (MSS)	SMS					6	6	100%	6	100%	100%
SMS Energy Services Ltd (MSA)	SMS					4	4	100%	4	100%	100%
Stark Connect Ltd (MSS)	Stark					6	6	100%	6	100%	100%
Stark Connect Ltd (MSA)	Stark					4	4	100%	4	100%	100%
Stark Software International (ADS)	Stark					5	5	100%	5	100%	100%
Stark Software International (SDS)	Stark					10	10	100%	10	100%	100%
TMA (ADS)	TMA					5	5	100%	5	100%	100%
TMA (SDS)	TMA					10	10	100%	10	100%	100%
Tym Huckin Ltd (UMSDS)	Tym Huckin					3	3	100%	3	100%	100%
Unify Energy (SUP)	Seaglass					17	17	100%	17	100%	100%
Utilita Energy Limited (SUP)	Utilita					17	17	100%	17	100%	100%
Utilita Energy Limited (MSS)	Utilita					6	6	100%	6	100%	100%
Utilita Energy Limited (MSA)	Utilita					4	4	100%	4	100%	100%
Southern Electric Power Distribution Plc (LDSO)	SSEN					10	10	100%	10	100%	100%
Southern Electric Power Distribution Plc (UMSO)	SSEN					2	2	100%	2	100%	100%
Southern Electric Power Distribution Plc (REGS)	St Clements					13	13	100%	13	100%	100%
The Electricity Network Company Ltd (BUUK) (LDSO)	BUUK					10	10	100%	10	100%	100%
The Electricity Network Company Ltd (BUUK) (UMSO)	BUUK					2	2	100%	2	100%	100%
The Electricity Network Company Ltd (BUUK) (REGS)	St Clements					13	13	100%	13	100%	100%

*Total Number of Tests for Market Role(s) being Qualified via SIT (This excludes Tests where a Dispensation was granted, and the TC was set to N/A)

Test Case Exceptions (Test Cases set to N/A) - in circumstances where for valid reasons a Participant is unable to execute an assigned test case, the SIT Defect Management policy allows for a 'Dispensation' defect to be raised declaring the reasons why. Upon programme approval, the Cohort is permitted to set the test case to N/A.

SIT NFT Theme 2 RTTM Requirements Coverage Status – Qualification Participants 1 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Requirement Coverage Status (1 of 2)

The table below provides a status summary of the unique requirement coverage associated with the Qualification Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Requirement Status (Theme 2)					% Passed (T2)
		Not Tested	Blocked	Failed	Passed	Total Reqs*	
British Gas Trading Ltd (SUP)	ENSEK				41	41	100%
British Gas Trading Ltd (MSS)	Callisto				28	28	100%
British Gas Trading Ltd (MSA)	Callisto				30	30	100%
Callisto Data Limited (SDS)	Callisto				31	31	100%
Callisto Data Limited (ADS)	Callisto				30	30	100%
E (Gas and Electricity) Ltd (SUP)	ESG				41	41	100%
E.ON Next Energy Ltd (SUP)	KRAKEN				41	41	100%
Edgware Energy Ltd (SUP)	Utiliteam				41	41	100%
EDF Energy Customers Ltd (Business Solution) (MSA)	ESG				30	30	100%
Ovo Energy Limited (MSS)	ESG				28	28	100%
B GLOBAL METERING LIMITED T/A Energy Assets(MSS)	ESG				28	28	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSA)	ESG				30	30	100%
B GLOBAL METERING LIMITED T/A Energy Assets (ADS)	Energy Assets				30	30	100%
IMServ Europe Ltd. (ADS)	IMServ				30	30	100%
IMServ Europe Ltd. (SDS)	IMServ				31	31	100%
IMServ Europe Ltd. (MSS)	IMServ				28	28	100%
IMServ Europe Ltd. (MSA)	IMServ				30	30	100%
Octopus Energy Limited (SUP)	KRAKEN				41	41	100%
Octopus Energy Services Ltd (MSS)	KRAKEN				28	28	100%
Octopus Energy Services Ltd (MSA)	KRAKEN				30	30	100%
Kraken Data Services (ADS)	KRAKEN				30	30	100%
Kraken Data Services (SDS)	KRAKEN				31	31	100%

*Total Number of Requirements for Market Role being Qualified via SIT

(See 'Test & Defect Extract' for details of RTTM Test Status, Requirements Coverage & 'N/A – Dispensations')

SIT NFT Theme 2 RTTM Requirements Coverage Status – Qualification Participants 2 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Requirement Coverage Status (2 of 2)

The table below provides a status summary of the unique requirement coverage associated with the Qualification Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Requirement Status (Theme 2)					% Passed (T2)
		Not Tested	Blocked	Failed	Passed	Total Reqs *	
Npower Commercial Gas Limited (ADS)	Itron				30	30	100%
Npower Commercial Gas Limited (MSA)	Wheatley				30	30	100%
Itron Metering Solution UK Ltd (ADS)	Itron Metering Solution UK Ltd				30	30	100%
E.ON UK Energy Service Ltd (MSS)	Wheatley				28	28	100%
Power Data Associates Ltd (UMSDS)	Power Data Associates Ltd				18	18	100%
SMS Energy Services Ltd (ADS)	SMS				30	30	100%
SMS Energy Services Ltd (SDS)	SMS				31	31	100%
SMS Energy Services Ltd (MSS)	SMS				28	28	100%
SMS Energy Services Ltd (MSA)	SMS				30	30	100%
Stark Connect Ltd (MSS)	Stark				28	28	100%
Stark Connect Ltd (MSA)	Stark				30	30	100%
Stark Software International Ltd (ADS)	Stark				30	30	100%
Stark Software International Ltd (SDS)	Stark				31	31	100%
TMA (ADS)	TMA				30	30	100%
TMA (SDS)	TMA				31	31	100%
Tym Huckin Ltd (UMSDS)	Tym Huckin				19	19	100%
Unify Energy (SUP)	Seaglass				41	41	100%
Utilita Energy Limited (SUP)	Utilita				41	41	100%
Utilita Energy Limited (MSS)	Utilita				28	28	100%
Utilita Energy Limited (MSA)	Utilita				30	30	100%
Southern Electric Power Distribution Plc (LDSO)	SSEN				27	27	100%
Southern Electric Power Distribution Plc (UMSO)	SSEN				16	16	100%
Southern Electric Power Distribution Plc (REGS)	SSEN				40	40	100%
BUUK (The Electricity Network Company Ltd (BUUK) (LDSO)	BUUK				27	27	100%
BUUK The Electricity Network Company Ltd (BUUK) (UMSO)	BUUK				16	16	100%
The Electricity Network Company Ltd (BUUK) (REGS)	BUUK				40	40	100%

*Total Number of Requirements for Market Role being Qualified via SIT

(See 'Test & Defect Extract' for details of RTTM Test Status, Requirements Coverage & 'N/A – Dispensations')

SIT NFT Theme 3 RTTM Test & Requirements Status – Central Parties (as at SIT NFT end)

Central Party Test & Requirement Reporting

The table below provides a status summary of the unique tests associated with the Central Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional <u>Test Case</u> Status (Theme 3)						% Passed (T3)	Total Tests Required to Complete SIT Stage	% Executed (T3 Exit)	% Passed (T3 Exit)
		Not Run	Paused	Blocked	Failed	Passed	Total *				
Elaxon (MDS, LSS, VAS, ECS, ISD)	Elaxon Helix					1	1	100%	1	100%	100%

**Total Number of Tests for Market Role(s) mapped in the RTTM*

Unique Test Case reports - see the 'T3UniqueTCStatus(ElaxonHelix)' tab in the 'Test & Defect Extract'

The table below provides a status summary of the unique requirement coverage associated with the Central Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional <u>Requirement</u> Status (Theme 3)					% Passed (T3)
		Not Tested	Blocked	Failed	Passed	Total Reqs*	
Elaxon (MDS, LSS, VAS, ECS, ISD)	Elaxon Helix				10	10	100%

**Total Number of Requirements for Market Role(s) mapped in the RTTM*

Unique Requirement pivot table reports - see 'T3UniqueReqStatus(ElaxonHelix)' tab in the 'Test & Defect Extract'

Exceptions: See Next Page

SIT NFT Theme 3 RTTM Test Coverage Status – Qualification Participants 1 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Test Status (1 of 2)

The table below provide a status summary of the unique tests associated with the Qualification Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Test Case Status (Theme 3)						% Passed
		Not Run	Paused	Blocked	Failed	Passed	Total	
British Gas Trading Ltd (SUP)	ENSEK					1	1	100%
British Gas Trading Ltd (MSS)	Callisto					1	1	100%
British Gas Trading Ltd (MSA)	Callisto					1	1	100%
Callisto Data Limited (SDS)	Callisto					1	1	100%
Callisto Data Limited (ADS)	Callisto					1	1	100%
E (Gas and Electricity) Ltd (SUP)	ESG					1	1	100%
E.ON Next Energy Ltd (SUP)	KRAKEN					1	1	100%
Edgware Energy Ltd (SUP)	Utiliteam					1	1	100%
EDF Energy Customers Ltd (Business Solution) (MSA)	ESG					1	1	100%
Ovo Energy Limited (MSS)	ESG					1	1	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSS)	ESG					1	1	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSA)	ESG					1	1	100%
B GLOBAL METERING LIMITED T/A Energy Assets (ADS)	Energy Assets					1	1	100%
IMServ Europe Ltd. (ADS)	IMServ					1	1	100%
IMServ Europe Ltd. (SDS)	IMServ					1	1	100%
IMServ Europe Ltd. (MSS)	IMServ					1	1	100%
IMServ Europe Ltd. (MSA)	IMServ					1	1	100%
Octopus Energy Limited (SUP)	KRAKEN					1	1	100%
Octopus Energy Services Ltd (MSS)	KRAKEN					1	1	100%
Octopus Energy Services Ltd (MSA)	KRAKEN					1	1	100%
Kraken Data Services (ADS)	KRAKEN					1	1	100%
Kraken Data Services (SDS)	KRAKEN					1	1	100%

SIT NFT Theme 3 RTTM Test Coverage Status – Qualification Participants 2 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Test Status (2 of 2)

The table below provide a status summary of the unique tests associated with the Qualification Participants via SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Test Case Status (Theme 3)						% Passed
		Not Run	Paused	Blocked	Failed	Passed	Total	
Npower Commercial Gas Limited (ADS)	Ittron					1	1	100%
Npower Commercial Gas Limited (MSA)	Wheatley					1	1	100%
Ittron Metering Solution UK Ltd (ADS)	Ittron					1	1	100%
E.on UK Energy Services (MSS)	Wheatley					1	1	100%
Power Data Associates Ltd (UMSDS)	PDA					1	1	100%
SMS Energy Services Ltd (ADS)	SMS					1	1	100%
SMS Energy Services Ltd (SDS)	SMS					1	1	100%
SMS Energy Services Ltd (MSS)	SMS					1	1	100%
SMS Energy Services Ltd (MSA)	SMS					1	1	100%
Stark Connect Ltd (MSS)	Stark					1	1	100%
Stark Connect Ltd (MSA)	Stark					1	1	100%
Stark Software International (ADS)	Stark					1	1	100%
Stark Software International (SDS)	Stark					1	1	100%
TMA (ADS)	TMA					1	1	100%
TMA (SDS)	TMA					1	1	100%
Tym Huckin Ltd (UMSDS)	Tym Huckin					1	1	100%
Unify Energy (SUP)	Seaglass					1	1	100%
Utilita Energy Limited (SUP)	Utilita					1	1	100%
Utilita Energy Limited (MSS)	Utilita					1	1	100%
Utilita Energy Limited (MSA)	Utilita					1	1	100%
Southern Electric Power Distribution Plc (REGS/LDSO/UMSO)*	SSEN					1	1	100%
The Electricity Network Company Ltd (BUUK) (REGS/LDSO/UMSO)*	BUUK					1	1	100%

*Single DIP adapter for all roles, single test covered resilience aspects for all

SIT NFT Theme 3 RTTM Requirements Coverage Status – Qualification Participants 1 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Requirement Coverage Status (1 of 2)

The table below provides a status summary of the unique requirement coverage associated with the Qualification Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Requirement Status (Theme 3)					% Passed
		Not Tested	Blocked	Failed	Passed	Total Reqs*	
British Gas Trading Ltd (SUP)	ENSEK				11	11	100%
British Gas Trading Ltd (MSS)	Callisto				9	9	100%
British Gas Trading Ltd (MSA)	Callisto				9	9	100%
Callisto Data Limited (SDS)	Callisto				10	10	100%
Callisto Data Limited (ADS)	Callisto				9	9	100%
E (Gas and Electricity) Ltd (SUP)	ESG				11	11	100%
E.ON Next Energy Ltd (SUP)	KRAKEN				11	11	100%
Edgware Energy Ltd (SUP)	Utiliteam				11	11	100%
EDF Energy Customers Ltd (Business Solution) (MSA)	ESG				9	9	100%
Ovo Energy Limited (MSS)	ESG				9	9	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSS)	ESG				9	9	100%
B GLOBAL METERING LIMITED T/A Energy Assets (MSA)	ESG				9	9	100%
B GLOBAL METERING LIMITED T/A Energy Assets (ADS)	Energy Assets				9	9	100%
IMServ Europe Ltd. (ADS)	IMServ				9	9	100%
IMServ Europe Ltd. (SDS)	IMServ				10	10	100%
IMServ Europe Ltd. (MSS)	IMServ				9	9	100%
IMServ Europe Ltd. (MSA)	IMServ				9	9	100%
Octopus Energy Limited (SUP)	KRAKEN				11	11	100%
Octopus Energy Services Ltd (MSS)	KRAKEN				9	9	100%
Octopus Energy Services Ltd (MSA)	KRAKEN				9	9	100%
Kraken Data Services (ADS)	KRAKEN				9	9	100%
Kraken Data Services (SDS)	KRAKEN				10	10	100%

*Total Number of Requirements for Market Role being Qualified via SIT

(See 'Test & Defect Extract' for details of RTTM Test Status, Requirements Coverage & 'N/A – Dispensations')

SIT NFT Theme 3 RTTM Requirements Coverage Status – Qualification Participants 2 of 2 (as at Cycle 3 end)

Qualification Participant RTTM Requirement Coverage Status (2 of 2)

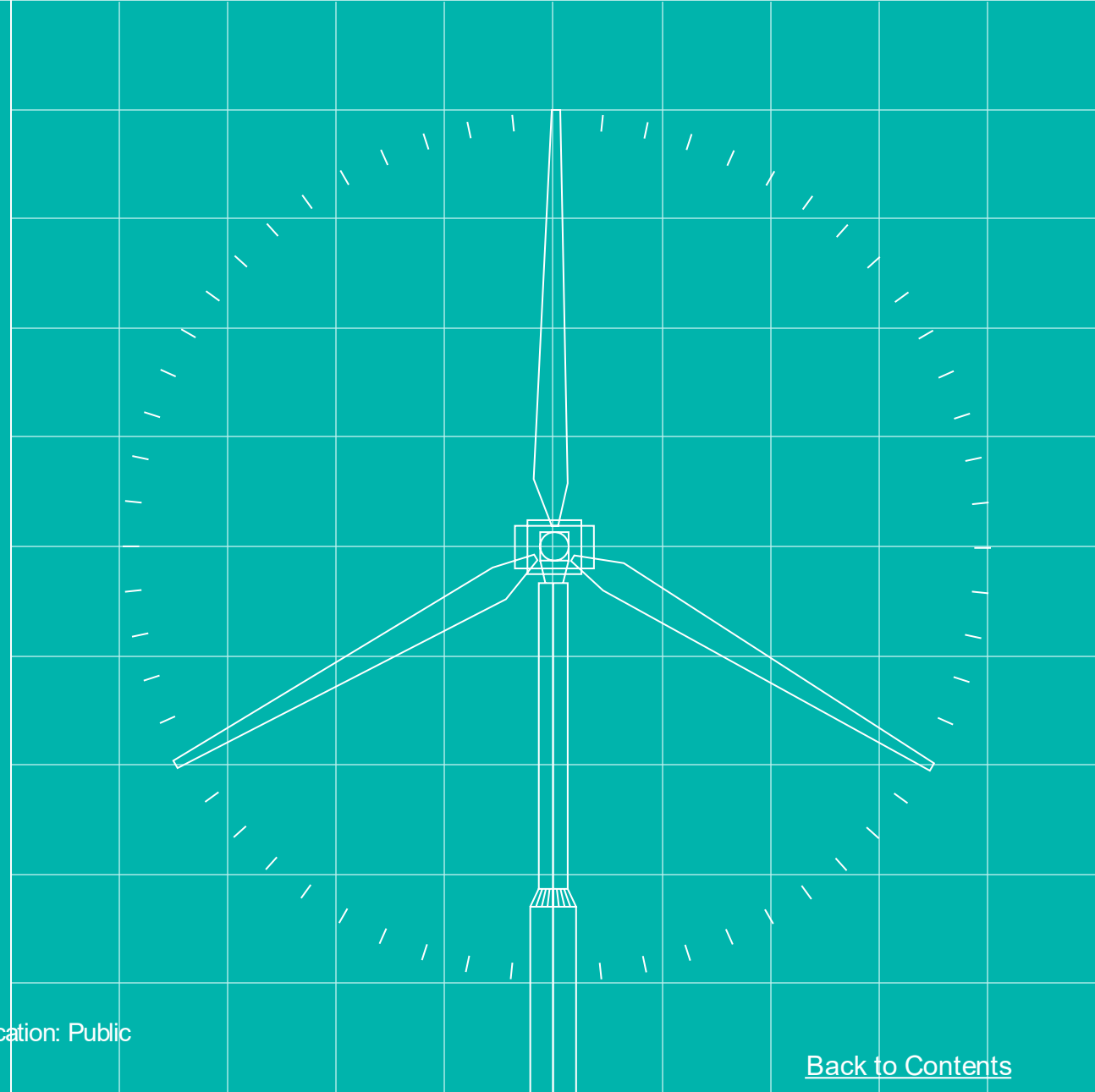
The table below provides a status summary of the unique requirement coverage associated with the Qualification Participants in SIT:

Participant (MHHS Market Roles)	SIT Test Participant(s)	SIT Non-Functional Requirement Status (Theme 3)					% Passed
		Not Tested	Blocked	Failed	Passed	Total Reqs*	
Npower Commercial Gas Limited (ADS)	Ittron				9	9	100%
Npower Commercial Gas Limited (MSA)	Wheatley				9	9	100%
Ittron Metering Solution UK Ltd (ADS)	Ittron				9	9	
E.ON UK Energy Service Ltd (MSS)	Wheatley				9	9	100%
Power Data Associates Ltd (UMSDS)	Power Data Associates Ltd				9	9	100%
SMS Energy Services Ltd (ADS)	SMS				9	9	100%
SMS Energy Services Ltd (SDS)	SMS				10	10	100%
SMS Energy Services Ltd (MSS)	SMS				9	9	100%
SMS Energy Services Ltd (MSA)	SMS				9	9	100%
Stark Connect Ltd (MSS)	Stark				9	9	100%
Stark Connect Ltd (MSA)	Stark				9	9	100%
Stark Software International (ADS)	Stark				9	9	100%
Stark Software International (SDS)	Stark				10	10	100%
TMA (ADS)	TMA				9	9	100%
TMA (SDS)	TMA				10	10	100%
Tym Huckin Ltd (UMSDS)	Tym Huckin				9	9	100%
Unify Energy (SUP)	Seaglass				11	11	100%
Utilita Energy Limited (SUP)	Utilita				11	11	100%
Utilita Energy Limited (MSS)	Utilita				9	9	100%
Utilita Energy Limited (MSA)	Utilita				9	9	100%
Southern Electric Power Distribution Plc (REGS/LDSO/UMSO)	SSEN				10	10	100%
The Electricity Network Company Ltd (BUUK) (REGS/LDSO/UMSO)	BUUK				10	10	100%

*Total Number of Requirements for Market Role being Qualified via SIT

Section 4:

Tests Passed with Observations or Workarounds



SIT NFT Test ‘Passed with Observations’ or ‘Passed with Workaround’

Tests Passed with a ‘PwO’ or ‘PwW’ sub-status

The use of the 'Passed with Observations' and 'Passed with Workaround' sub-statuses are permitted under conditions outlined in the SIT NFT DITL policy [\[REF-13\]](#).

In essence 'PwO' can be used if an unexpected event occurs which doesn't impact or invalidate the outcome objective of the test, or in rare cases an event occurred where a programme accepted workaround was employed, again without impacting the core test objective.

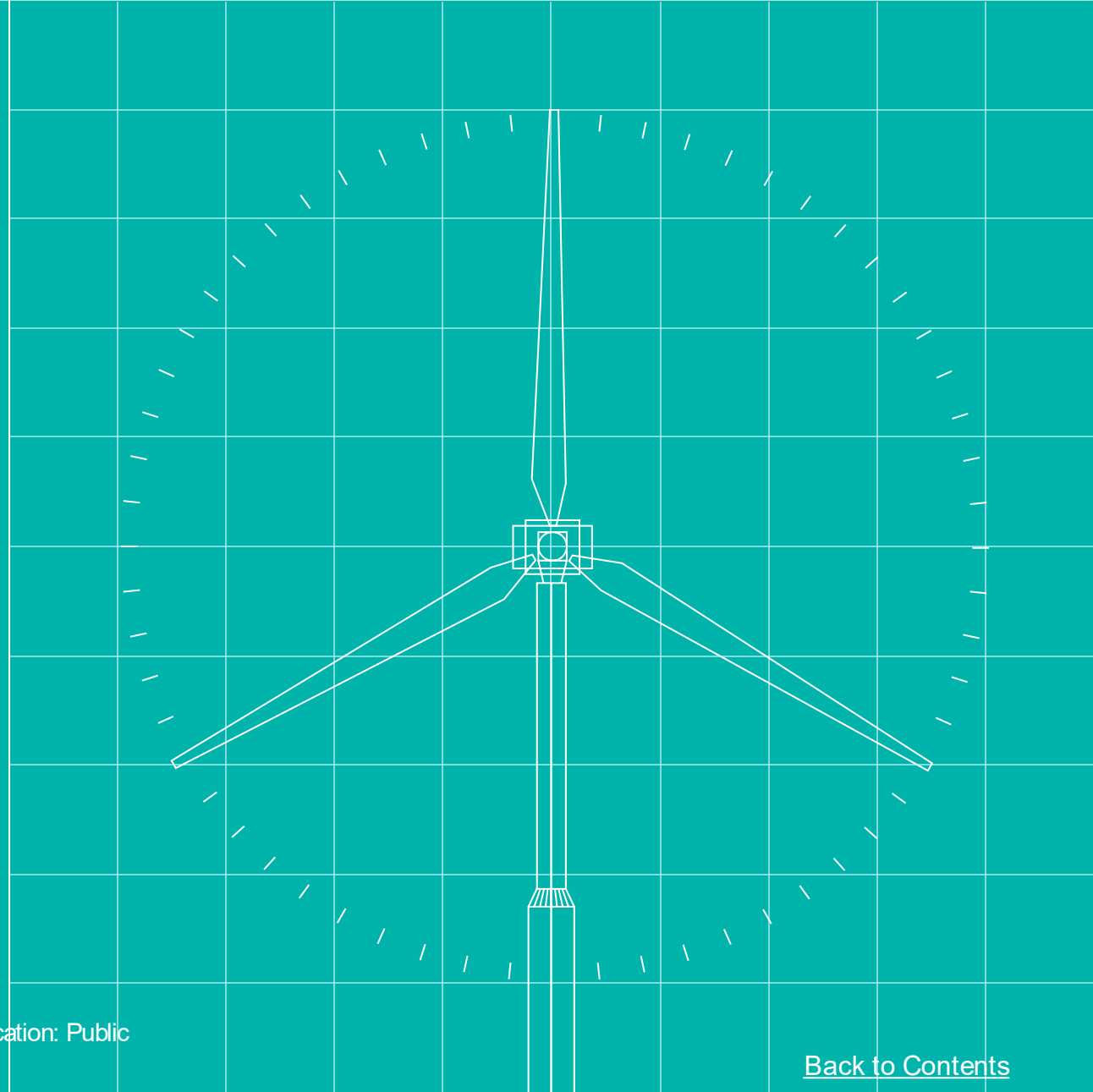
Any use of these sub-statuses needs to be approved by the programme and is the subject of separate test assurance after the event.

SI Assurance Status

- All tests where the sub-status of PwO and PwW have been assured and approved by the SI Test Assurance team
- In all cases there was no impact on testing participant requirements coverage

There were no individual test cases deemed PwO or PwW for SIT NFT, though given the additional retrospective investigative analysis activities required in order to satisfactorily conclude SIT NFT Theme 2 – the Theme overall was determined as PwO.

Section 5: SIT NFT Defect Status Summary



SIT NFT Defects Summary (as at SIT NFT end)

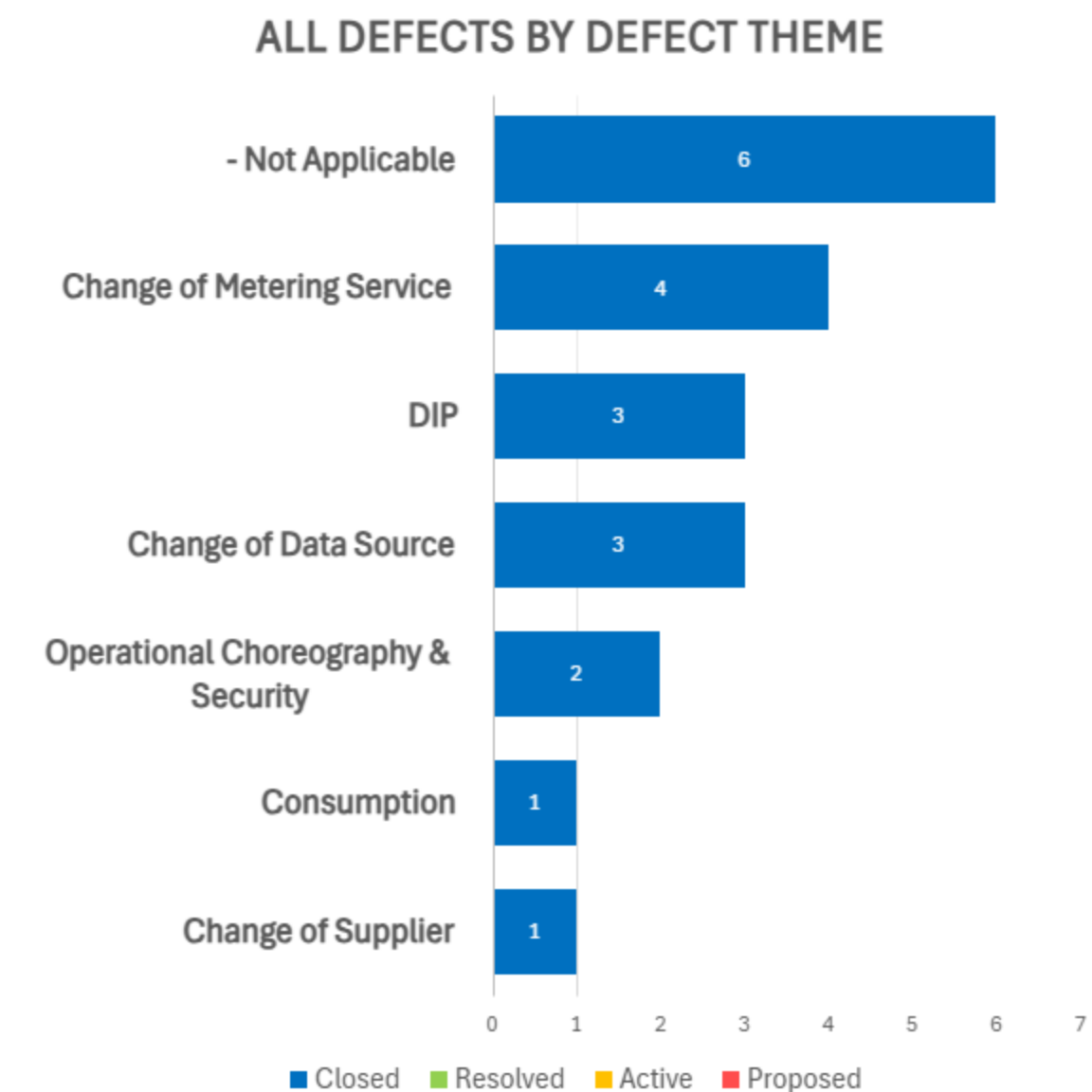
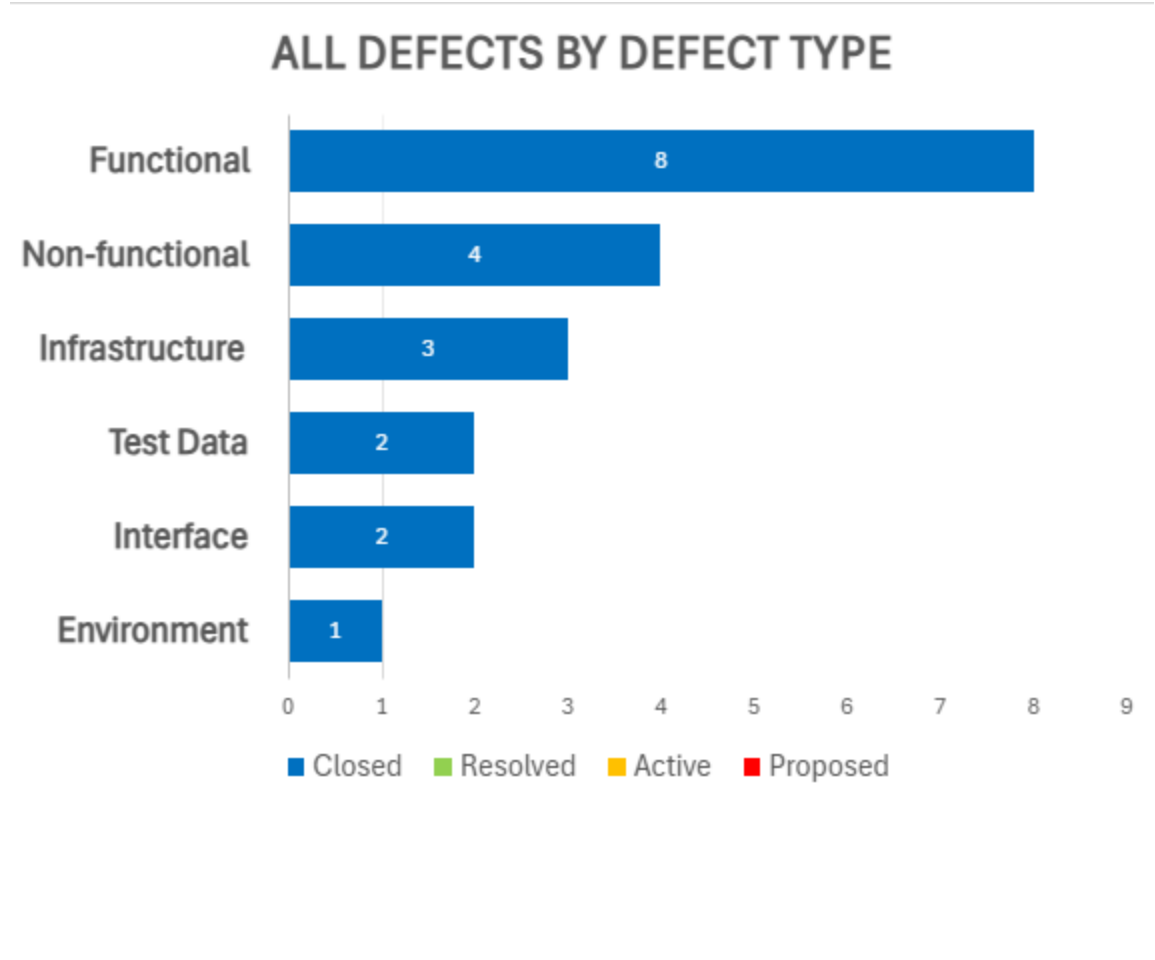
SIT NFT (All Defects - End of SIT NFT)

State	SIT NFT Theme 1	SIT NFT Theme 2	SIT NFT Theme 3	Total
Proposed				0
Active				0
Resolved				0
Closed		16	4	20
Grand Total	0	16	4	20

Status at the end of SIT NFT = Complete

- ✓ No open Severity 1 or 2 Defects
- ✓ No open Severity 3 or 4 Defects

(*For Guidance on Defect States see [Appendix B](#))



SIT NFT - Defect Raisers and Resolvers Summary (as at SIT NFT end)

Defect Raisers

(Defects encountered and raised by PPs during testing, this does not infer resolution responsibility)

Participant Raiser	Closed	Resolved	Active	Proposed
Kraken	3			
ESG	2			
Ensek	2			
St.Clements (SCS)				
Utilita	1			
SMS				
BUUK				
Wheatley				
Callisto	1			
TMA	3			
Power Data Associates	3			
'- Not Applicable				
ltron	2			
Utiliteam				
Stark				
IMServ	1			
C&C				
SSEN	1			
Helix				
Seaglass				
Energy Assets	1			
Tym Huckin				
DCC				
Avanade				
SI Teams				
RECCo				
CSS				
SCS - General				
SI				
Not Applicable				
	20			

Defect Resolvers

(Participant responsible for resolving defects)

Defect Resolver	Closed	Resolved	Active	Proposed
SI Assurance				
St.Clements (SCS)				
Avanade - DIP provider	6			
SI Design				
No Resolver Group Assigned				
Helix				
C&C				
Kraken	3			
SI Data Team	1			
SMS				
ENSEK				
ESG				
ltron	2			
Utilita	1			
Callisto				
Wheatley				
ElectraLink (DTN)				
IMServ	1			
Stark				
C&C - RECCo				
SI Test Team				
Energy Assets	1			
PDA	1			
Smart DCC				
TMA				
Seaglass				
SSEN	3			
Utiliteam				
SI ADO Management				
Tym Huckin				
SI Test Team	1			
	20			

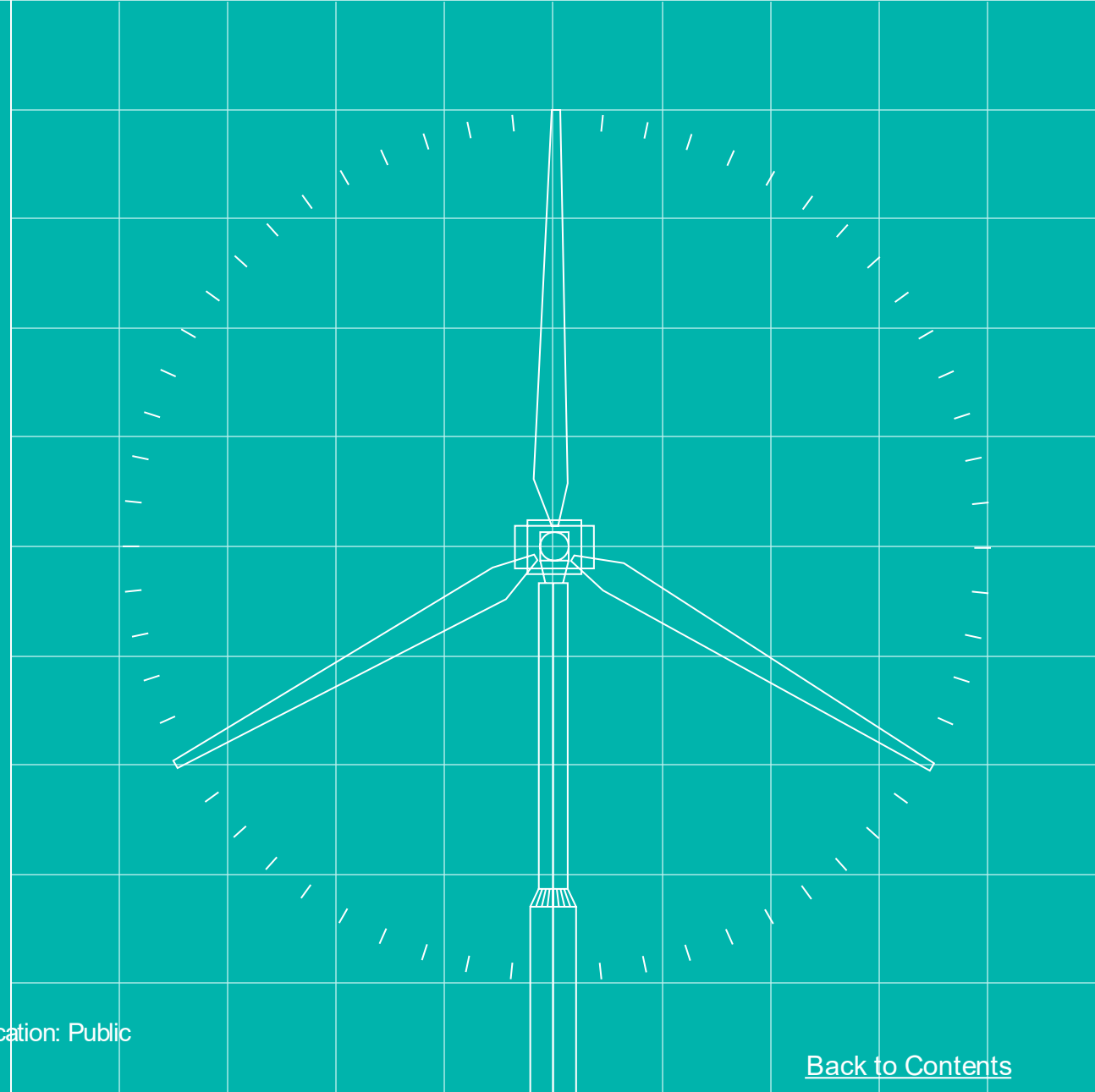
SIT NFT - Open Defects by Resolver Group (as at SIT NFT end)

No open defects at the conclusion of SIT NFT

SIT NFT Open Defects Per Workstream (as at SIT NFT end)

Open Defect Report	Theme 1	Theme 2	Theme 3
Summary of Open Defects by Cohort Raiser and Severity	0	0	0
Summary of Severity 1 & 2 Open Defects by Resolver Group and Progress State	0	0	0
List of Severity 1 & 2 Open Defects where Resolver Group = Central Party	0	0	0
List of Severity 1 & 2 Open Defects where Resolver Group = Programme	0	0	0
List of Severity 1 & 2 Open Defects where Resolver Group = Internal Cohort	0	0	0
Summary of Severity 3 & 4 Open Defects by Resolver Group and Progress State	0	0	0
List of Severity 3 & 4 Open Defects where Resolver Group = Central Party	0	0	0
List of Severity 3 & 4 Open Defects where Resolver Group = Programme	0	0	0
List of Severity 3 & 4 Open Defects where Resolver Group = Internal Cohort	0	0	0

Section 6: Exit Criteria Status



Final SIT NFT Exit Criteria Status (Theme 1 - DIP & Elexon Helix Integration Test at Volume)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 1	
	Avanade	Elexon Helix
SIT Exit Criteria	DIP	Helix
All SIT Theme 1 tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met
Defects have been captured in the defect management tool	Met	Met

Final SIT NFT Exit Criteria Status (Cohort A)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	Kraken	Kraken	Kraken	Kraken	Kraken	PDA	Kraken	Kraken	Kraken	Kraken	Kraken	PDA
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met

Final SIT NFT Exit Criteria Status (Cohort B)

The SIT NFT Exit Criteria = **Complete**

SIT Stage	SIT NFT Theme 2						SIT NFT Theme 3					
Testing Participant Organisation	Kraken	SMS	Itron	Wheatley	Wheatley	-	Kraken	SMS	Itron	Wheatley	Wheatley	-
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none"> 10% of test cases allocated per Market Role x Severity 3 Defects 20% of test cases allocated per Market Role x Severity 4 Defects 	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A

Final SIT NFT Exit Criteria Status (Cohort C)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	ENSEK	Callisto	Callisto	Callisto	Callisto	-	ENSEK	Callisto	Callisto	Callisto	Callisto	-
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A

Final SIT NFT Exit Criteria Status (Cohort E)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	Utilita	IMServ	IMServ	Utilita	Utilita	-	Utilita	IMServ	IMServ	Utilita	Utilita	-
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A

Final SIT NFT Exit Criteria Status (Cohort F)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	Seaglass	TMA	TMA	IMServ	IMServ	-	Seaglass	TMA	TMA	IMServ	IMServ	-
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none"> 10% of test cases allocated per Market Role x Severity 3 Defects 20% of test cases allocated per Market Role x Severity 4 Defects 	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A

Final SIT NFT Exit Criteria Status (Cohort G)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	ESG	TMA	Energy Assets	ESG	ESG	PDA	ESG	TMA	Energy Assets	ESG	ESG	PDA
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met

Final SIT NFT Exit Criteria Status (Cohort H)

The SIT NFT Exit Criteria = **Complete**

SIT Stage	SIT NFT Theme 2						SIT NFT Theme 3					
Testing Participant Organisation	ESG	SMS	SMS	SMS	SMS	-	ESG	SMS	SMS	SMS	SMS	-
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	N/A
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none"> 10% of test cases allocated per Market Role x Severity 3 Defects 20% of test cases allocated per Market Role x Severity 4 Defects 	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	N/A
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	N/A	Met	Met	Met	Met	Met	N/A

Final SIT NFT Exit Criteria Status (Cohort J)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	Utiliteam	Stark	Stark	Stark	Stark	Tym Huckin	Utiliteam	Stark	Stark	Stark	Stark	Tym Huckin
SIT Exit Criteria	SUP	SDS	ADS	MSS	MSA	UMSDS	SUP	SDS	ADS	MSS	MSA	UMSDS
All Cohort SIT tests have been executed, and the overall test pass rate is 85% or above or any exceptions are documented and agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none"> 10% of test cases allocated per Market Role x Severity 3 Defects 20% of test cases allocated per Market Role x Severity 4 Defects 	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met

Final SIT NFT Exit Criteria Status (Core Parties / LDSOs)

The SIT NFT Exit Criteria = **Complete**

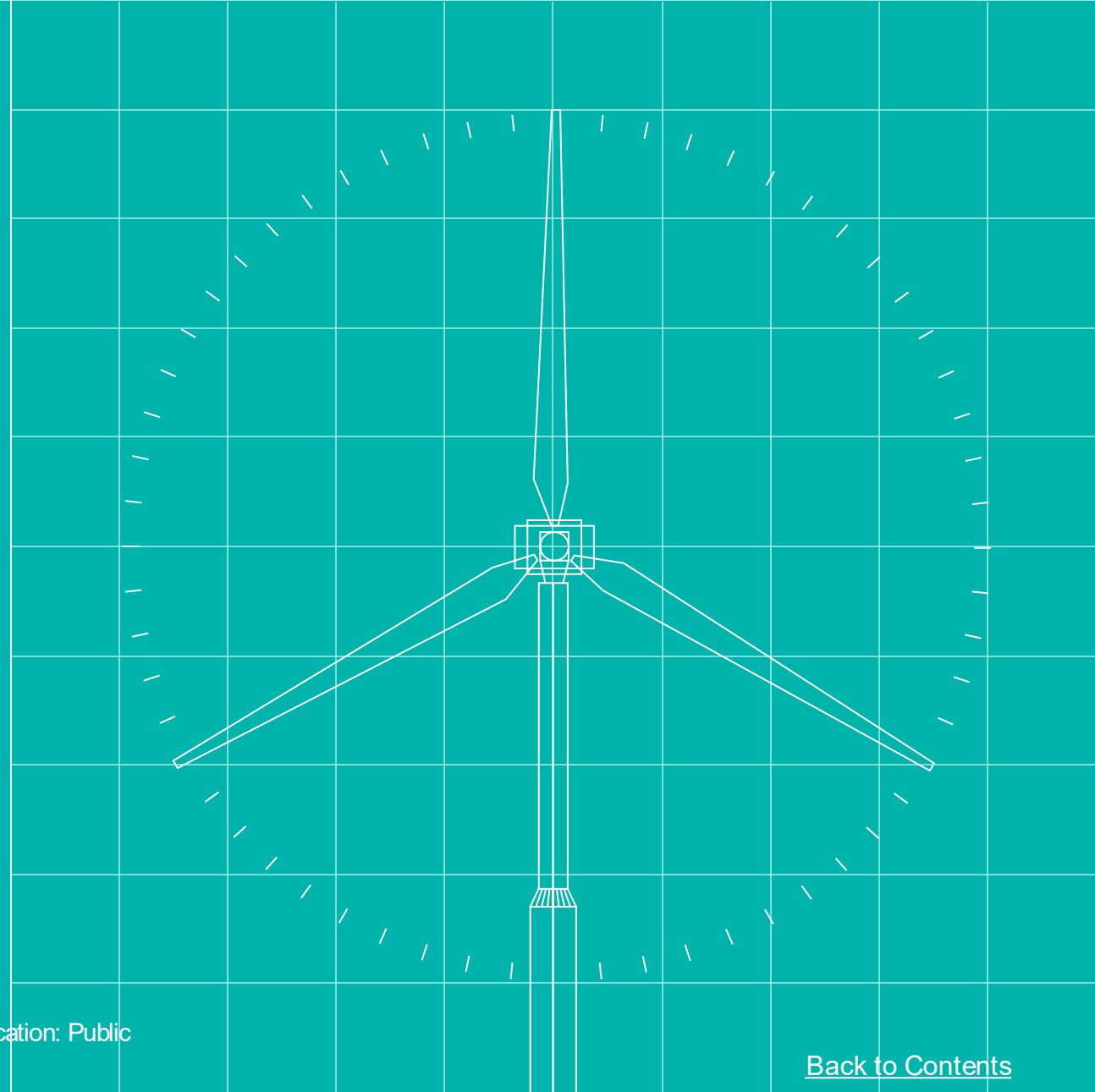
SIT Stage Testing Participant Organisation	SIT NFT Theme 2						SIT NFT Theme 3					
	BUUK	BUUK	BUUK	SSEN	SSEN	SSEN	BUUK	BUUK	BUUK	SSEN	SSEN	SSEN
SIT Exit Criteria	LDSO	UMSO	REGS	LDSO	UMSO	REGS	LDSO	UMSO	REGS	LDSO	UMSO	REGS
Cohort A 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort B 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort C 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort E 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort F 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort G 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort H 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort J 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met	Met

Final SIT NFT Exit Criteria Status (Central Parties)

The SIT NFT Exit Criteria = **Complete**

SIT Stage Testing Participant Organisation	SIT NFT Theme 2				SIT NFT Theme 3				
	RECCo	Helix	DCC	DIP	BUUK	BUUK	BUUK	SSEN	SSEN
SIT Exit Criteria	EES	MDS, LSS, VAS, ECS, ISD	-	-	EES	MDS, LSS, VAS, ECS, ISD	-	-	-
Cohort A 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort B 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort C 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort E 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort F 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort G 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort H 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
Cohort J 85% Passed, or exceptions agreed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed	100% Passed
There are no outstanding Severity 1 or 2 defects, or any exceptions are documented and agreed	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
The number of outstanding Severity 3 or 4 defects, within the following thresholds: <ul style="list-style-type: none">10% of test cases allocated per Market Role x Severity 3 Defects20% of test cases allocated per Market Role x Severity 4 Defects	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)	Met (0 Open)
Work-off plan for any outstanding defects has been produced and agreed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Test results and evidence has been captured in the test management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met
Defects have been captured in the defect management tool	Met	Met	Met	Met	Met	Met	Met	Met	Met

Section 7: Programme Risks

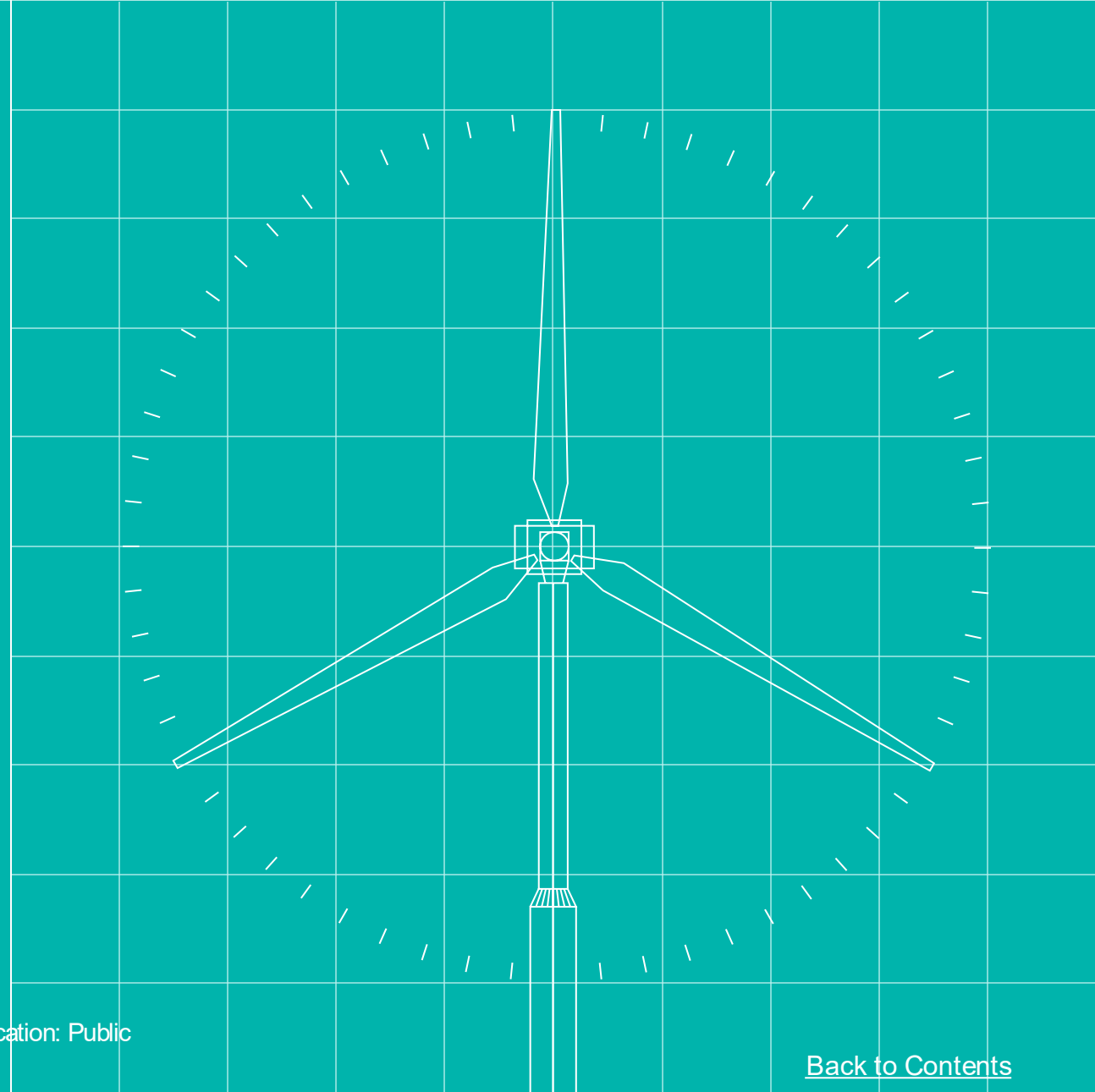


SIT NFT – Programme Risks

The programme is proceeding while carrying a few known and acknowledged risks. All risks are logged and tracked in the Programme risk register. Please find below a summary of what are considered some of the key risks presently, their status and current mitigating actions.

Theme		Summary																Mitigation Approach Overview																	
Risks to SIT Non-Functional		The theme explores the factors which may affect the Programme being able to complete SIT Non-Functional within the planned duration																<ul style="list-style-type: none">Completion of all scheduled NFT phases including individual PP PIT execution, SIT NFT Themes 1, 2 and 3, successful review and sign-off of individual QP SIT NFT exit reports and Industry sign-off of the SIT NFT Overarching exit report achieved.All scheduled NFT execution phases are now successfully completed. Individual QP SIT NFT Exit reports are in the process of being signed off. SIT NFT overarching exit report going to Industry review 18/07																	
Key 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	1		
R1111	Functional issues have previously emerged when transitioning from one environment to another. There is risk that configuration and regression issues may occur when moving to production or PPs forget to apply fixes that needed to be applied manually																																	Score remains at 16	1. 10/06: Defects have been raised in stabilisation period for SIT A Settlement testing. Appropriate central parties have corrected them 2. 10/07: Defects have been raised in first Cycle of Regression testing, appropriate central parties are in process of correcting them
R1034	There is a risk that the DIP and the MHHS TOM is not fully tested against all party connections at volume during both PIT and SIT for NFT. Therefore the first time that the DIP and the MHHS TOM is going to be tested at volume against all party connections, will be at go live, when Suppliers begin their migrations.																																	Score increased to 17	1. 11/03: DIP has now been fully tested against Avanade and Helix, but will not be tested against all suppliers until the start of Theme 2 & 3. 2. 06/05: All NFT has been executed at volume. Analysis of test results is ongoing 3. 27/05: SIT NF Testing execution is complete and with SRO for review 4. 10/06: SIT NF Testing is complete and under review with PPs 5. 09/07: CR to be raised to support further cross-party testing should it be needed if a production issue / emergency Cr is required (CR063). We must understand what performance measures / reporting may be required of us during ELS since the ELS model (MHHS-DEL3094) is not explicit for suppliers/agents in what these will be (section 3.4)

Section 8: Approach to Lessons Learned



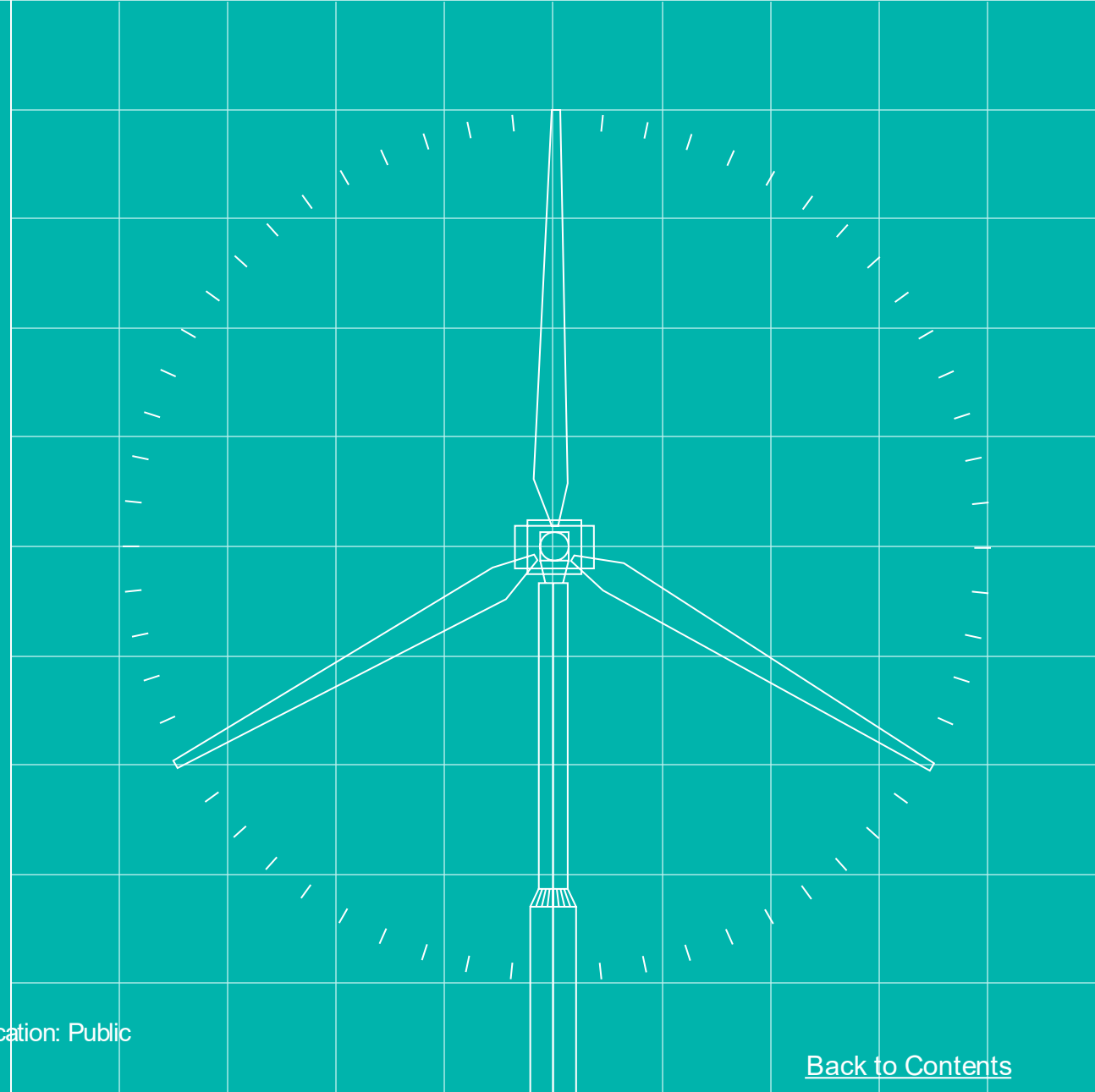
The programme recognises the value of capturing lessons learned from the delivery of MHHS SIT and has a responsibility to document these insights to support the planning and delivery of future industry programmes of a similar nature.

While acknowledging that SIT participant testing teams remain focused on completing critical activities to achieve SIT completion, the proposal is to hold a retrospective following SIT's conclusion. This session would provide an opportunity for industry participants to reflect on the MHHS testing journey—highlighting what worked well and identifying lessons that could help streamline future industry programme delivery.

In addition to conducting its own internal retrospective, the programme will propose a broader industry retrospective at the SIT Working Group to gauge interest and support for participation.

If you have any views on this subject that you would like to discuss bi-laterally, please speak to your MHHS PPC representative, or contact the [MHHS testing mailbox](#).

Section 9: SITAG Recommendation



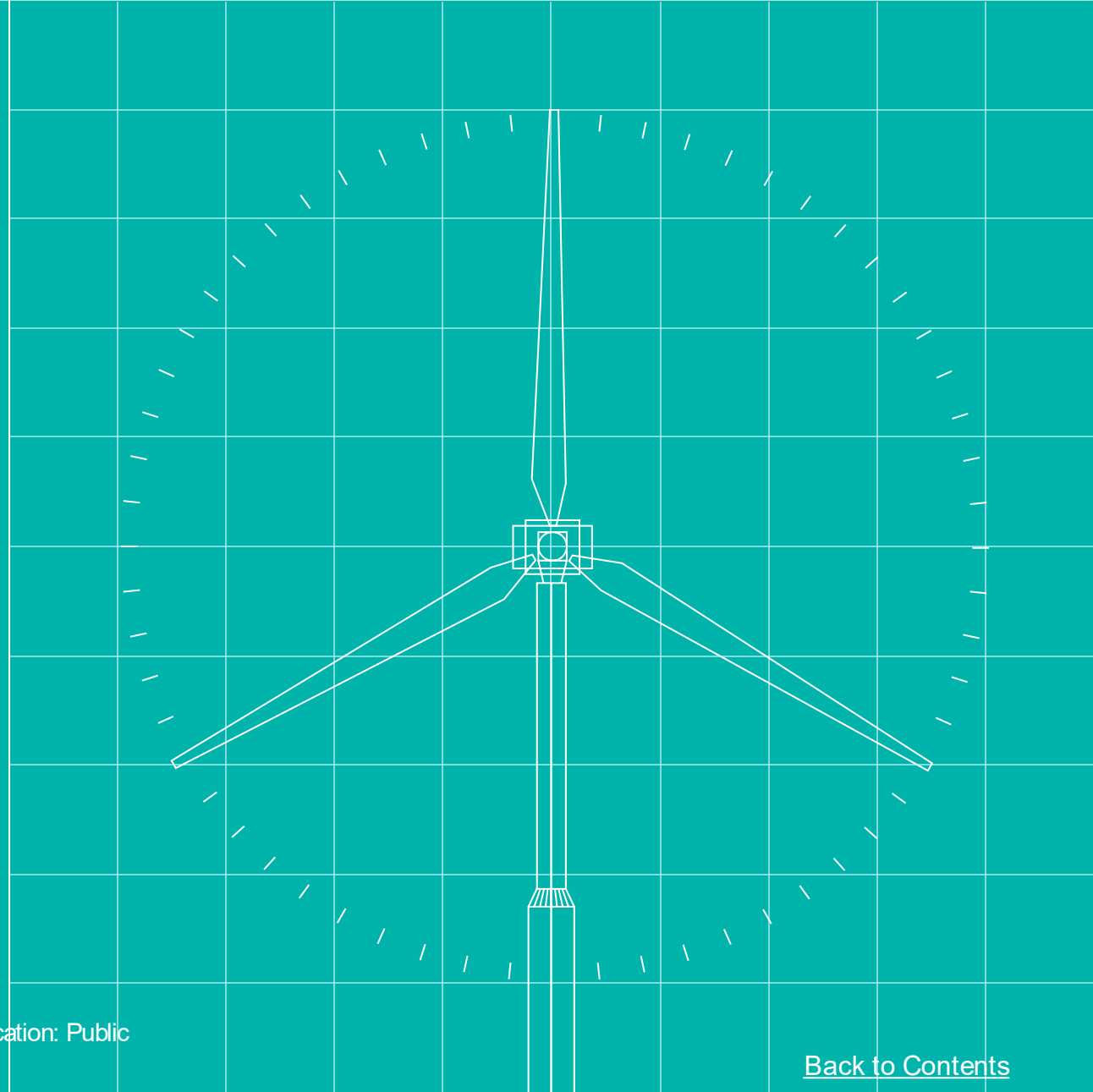
The Programme recommends that the Exit Criteria for the SIT NFT Stages are deemed met and so the Programme can formally proceed to exit the SIT NFT phase.

Once completed, the following milestone should be approved:

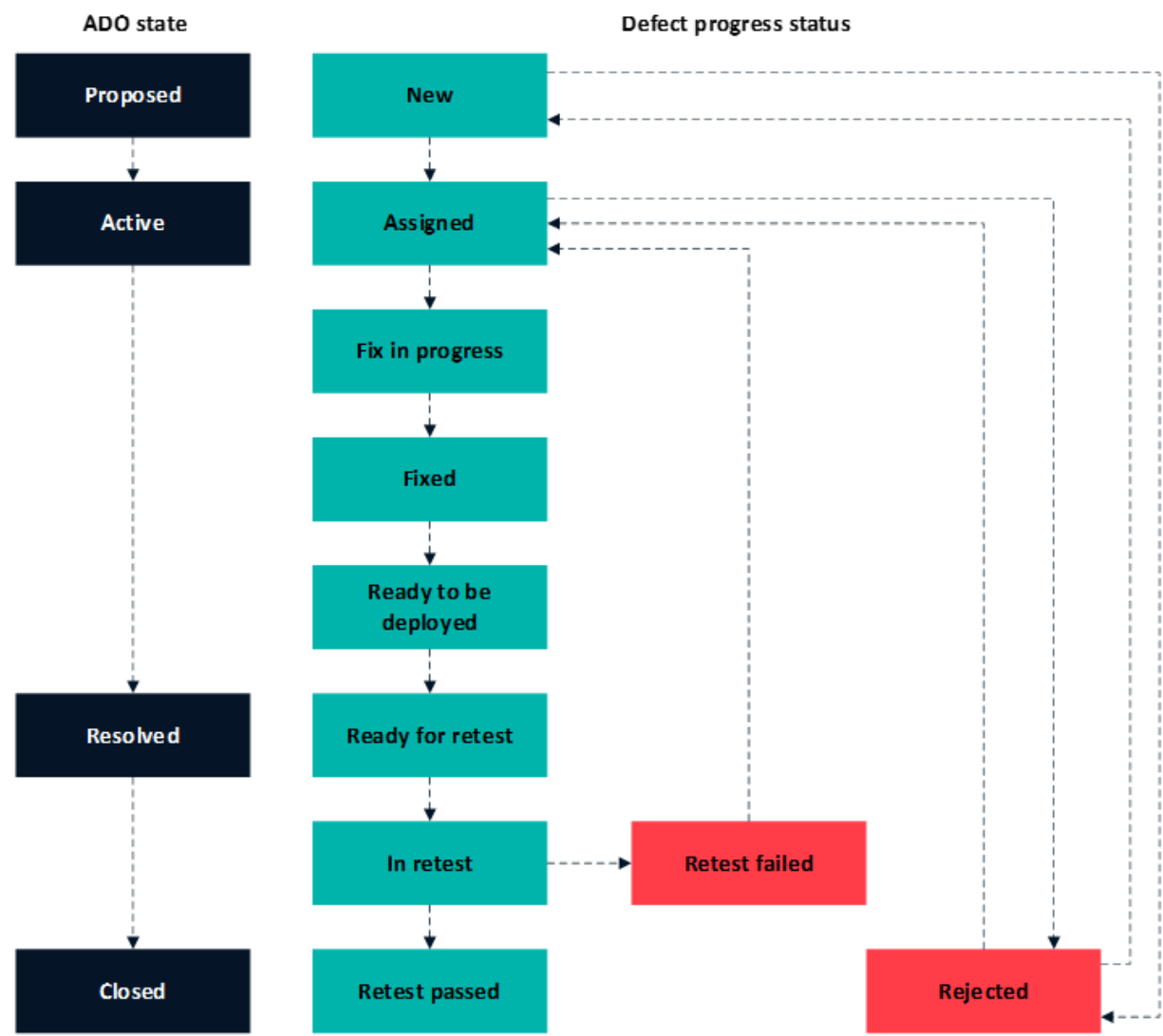
T2-TE-0900	SIT Non-Functional Testing Test Exit Report Approved
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Appendix A:

Reference Guidance on Defect States, and Progress Status



Reference Guidance on Defect States, and Progress Status



- **Proposed** = Defect awaits formal Triage to establish if it's an Issue or a Defect, (typically newly raised defects). Progress status is 'New'.
- **Active** = Post Triage, established by consensus of agreement as a defect. In flight, typically awaiting root cause, fix ETA or a response by PP or CPO. Progress statuses are 'Assigned', 'Fix In Progress' or 'Fixed'
- **Resolved** = Where root cause and remedial action are known. Related progress statuses are: 'Ready for Retest', 'In Retest', 'Passed Retest'
- **Closed** = Defect has successfully been retested, evidence has been attached and root cause / remedial action and market role where originated are known.

Figure 2 - ADO State Transitions

END

