



The Single Electricity Market (SEM)

Agreed Procedure 11: Market System Operation, Testing, Upgrading and Support

Version 10.0

21 October 2011

SEM Agreed Procedure

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DOCUMENT HISTORY

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8.0	19/11/2010	SEMO	SEMO Design Baseline Documentation at V8.0
9.0	06/05/2011	SEMO	SEMO Design Baseline Documentation at V9.0
10.0	21/10/2011	SEMO	SEMO Design Baseline Documentation at V10.0

RELATED DOCUMENTS

Document Title	Version	Date	By
Trading and Settlement Code	V10.0	21/10/2011	SEMO
Agreed Procedure 1 "Participant and Unit Registration and Deregistration"			
Agreed Procedure 3 "Communication Channel Qualification"			
Agreed Procedure 7 "Emergency Communications"			
Agreed Procedure 9 "Credit Risk Management"			
Agreed Procedure 10 "Settlement Reallocation"			
Agreed Procedure 12 "Modifications Committee Operation"			
Agreed Procedure 13 "Query Generation"			
Agreed Procedure 14 "Disputes"			

1. INTRODUCTION

1.1 BACKGROUND AND PURPOSE

This Agreed Procedure describes the specific procedures and directives for Market System Operation, Testing, Upgrading and Support with which Parties to the Trading and Settlement Code (the “Code”) must comply.

1.2 SCOPE OF AGREED PROCEDURE

This Agreed Procedure defines how the Market Operator:

- Provides advice to Parties in relation to the market operation and Communication Channels;
- Provides a facility for Parties to report incidents;
- Coordinates and facilitates Implementation of the Market Operator’s Isolated Market Systems and its interfaces to the Communication Channels;
- Schedules testing and down-time of the Market Operator’s Isolated Market Systems or its interfaces to Communication Channels; and
- Commissions an externally audited report in the event of a General Communication Failure, General System Failure, or MSP Failure.

The Agreed Procedure will also set out the timescales and standards for the Market Operator to restore the Market Operator’s Isolated Market Systems in the event of a General System Failure.

This Agreed Procedure forms an annexe to, and is governed by, the Code. This document is a statement of process and procedure. Parties’ rights and obligations are set out in the Code.

1.3 DEFINITIONS

Save as expressly defined, words and expressions defined in the Code shall have the same meanings when used in this Agreed Procedure.

References to particular sections relate internally to this Agreed Procedure unless specifically noted.

1.4 COMPLIANCE WITH AGREED PROCEDURE

Compliance with this Agreed Procedure is required under the terms as set out in the Code.

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2. PROCEDURE DEFINITION

This section 2 provides an overview of the procedure provided for in the main Sections of the Code, for explanatory purposes and to set the context for this Agreed Procedure only. The overview contained in this section is not legally binding and is not intended to create rights or impose obligations on any Party.

2.1 CUSTOMER SERVICES FUNCTION

The Market Operator will operate a Help Desk where Parties can seek technical and operational advice. The Help Desk will provide information and advice on the following:

- Party / Unit Registration;
- Communication Channels;
- Market operation and obligations of Parties;
- Incidents affecting the Market Operator's Isolated Market Systems and Communication Channels; or
- Initial point of contact for Participants to raise a Query, log a Dispute or request an ad-hoc data report.

The Help Desk can be contacted via email or by telephone except for Disputes, ~~and Data Queries, or Settlement Queries, or Required Credit Cover Queries~~ which will require the communication methods defined in Agreed Procedure 13 "Query Generation" and Agreed Procedure 14 "Disputes" to be used.

2.1.1 Categorisation and Prioritisation of Help Desk Requests

Help Desk Requests are separated into 5 Categories namely:

Category	Title	Description
1	Dispute	Dispute raised under Agreed Procedure 14 "Disputes"
2	Settlement Query and Data Query <u>or Required Credit Cover Query</u>	Query raised under Agreed Procedure 13 "Query Generation"
3	Incident Reporting	Reporting an issue that is preventing Participant from performing its obligations under the Code and which may require assistance from the Market Operator to resolve.
4	Assistance Request	Request by Participant who is having difficulty with configuration of Communication Channels or issues with data transfers and requires technical assistance. Request for ad-hoc data reports.
5	Information Request	Information on Agreed Procedures, current or planned events, current incidents. This information will usually be available on the Market Operator Website or Type 2 Channel as appropriate.

2.1.1.1 Help Desk Category 1 requests

All Help Desk Requests under Category 1 will be logged and presented to the appropriate Market Operator contact as soon as possible upon receipt. The person processing the Dispute shall follow the procedures and timelines of Agreed Procedure 14 "Disputes".

2.1.1.2 Help Desk Category 2 requests

All Help Desk Requests under Category 2 will be logged and presented to the appropriate Market Operator contact as soon as possible upon receipt. The person processing the Query shall follow the procedures and timelines of Agreed Procedure 13 "Query Generation".

2.1.1.3 Help Desk Category 3, 4 & 5 requests

Help Desk requests submitted by email / voicemail will be responded to within 1 Working Day of receipt. The response will include either the information requested or provide a timescale for processing the request.

Where a Help Desk request is by telephone, and the Help Desk operator is unable to provide the requested information, the Help Desk operator will agree with the Participant the timescale for resolution. The Help Desk shall confirm the request and the agreed timescale by email where an email address is provided.

For Help Desk Category 5 requests, resolution will be the provision of the requested information and will typically be within 1 Working Day. For Help Desk Category 3 and 4 requests, resolution will be when the relevant Level 2 Support contacts the Participant to assist in resolving the issue. The timescales will be dependent on the type of request (e.g. inability to send Technical Offer Data and Commercial Offer Data may require a response of less than 1 hour whilst assistance with configuration of Communication Channels may be greater than 1 Working Day).

2.1.2 Logging / Monitoring of Help Desk Requests

All Help Desk requests will be logged when initially processed and the details and resolution timescales recorded.

Level 2 Support will also update the Help Desk with progress / closure of the issue. The Help Desk will inform the Participant of the closure of Help Desk requests, either by telephone or email.

2.2 MARKET OPERATOR'S ISOLATED MARKET SYSTEM MODIFICATIONS

2.2.1 Change Management

The Market Operator shall implement a change management process to manage the identification, recording, rectification/development and Implementation of:

- any change to the production system, applications or environment;
- defects;
- approved changes through Agreed Procedure 12 "Modifications Committee Operation";
- operational improvements not requiring Modifications; and
- upgrades in system software.

The change management process will include procedures to collate Modifications to the Market Operator's Isolated Market System into Releases.

Parties will be made aware of all changes to the Market Operator's Isolated Market Systems with the exception of changes that relate to standard IT maintenance activities or internal process improvements which do not impact on system availability or third party interfaces.

Parties will have facility to review those changes, either through the impact assessment processes for changes that are agreed by the Modifications Committee as described in Agreed Procedure 12 "Modifications Committee Operation" or, for other changes, through the provisions described in this Agreed Procedure. The Market Operator can then include the impact on all affected Parties in its Detailed Impact Assessment.

2.2.2 Release Management

2.2.2.1 Scheduled Releases

By the final Working Day in June of each year the Market Operator shall provide all Parties with a release timetable for the following year that identifies the dates for scheduled Releases of the Market Operator's Isolated Market System. These Releases will be made up of system modifications as a result of Modifications agreed under Agreed Procedure 12 "Modifications Committee Operation", upgrades in system software and corrections of identified defects. The composition of the releases will not be detailed in the release timetable.

The Market Operator shall maintain an Interface Documentation Set, which shall provide sufficient information for Participants to implement Type 2 Channel and Type 3 Channel interfaces to the Market Operator's Isolated Market Systems. This documentation shall be maintained under version control by the Market Operator.

Any proposed implementation shall consider the change to the Interface Documentation Set and the Market Operator shall detail the change within its High Level Impact Assessment which shall be made available to Participants, Meter Data Providers and System Operators. The High Level Impact Assessment shall assign the Implementation Classification (see Table 1) and include a proposed Release Plan. The Release Plan shall include:

- Consultation forum details;
- Proposed delivery date for complete Interface Documentation pertaining to proposed release. Where appropriate a delivery date for provision of sample files will also be specified;
- Proposed Participant interface testing start date and duration; and
- Proposed release date and implementation window.

On receipt of the output of the High Level Impact Assessment and Release Plan the Participant, Meter Data Providers and System Operators shall be given the opportunity to comment on the content of these documents. All comments must be received by the Market Operator no later than 5 days from the date of issue of the High Level Impact Assessment and Release Plan. In the case of disagreement on the content, assigned Implementation Classification, or release detail then the rationale for the disagreement must be provided to the Market Operator.

A Consultation Workshop will be organised by the Market Operator as close as is practicable to 5 days (and no later than 10 days) after the issue of the High Level Impact Assessment and Release Plan. Attendance is not compulsory - the purpose of the workshop is to facilitate consultation on the key aspects of the proposed release.

Once all comments are received, including discussions had during the Consultation Workshop, the Market Operator will issue a document detailing the final implementation classification, release content and proposed timeline to the Participants, Meter Data

Providers and System Operators. The minimum time between issue of this document and implementing a planned release will be 35 days.

If a Participant, Meter Data Provider or System Operator maintains their disagreement with the assigned Implementation Classification or release detail they shall have recourse to the Modifications Committee through the raising of an Urgent Modification Proposal following the processes described in Agreed Procedure 12 “Modifications Committee Operation”. The raising of the Urgent Modification Proposal must first be agreed with the Regulatory Authorities and its raising shall prevent the proposed Implementation of the change until a judgement has been concluded by the Emergency Meeting. There will be no specific changes to Market Documentation associated with the Urgent Modification Proposal.

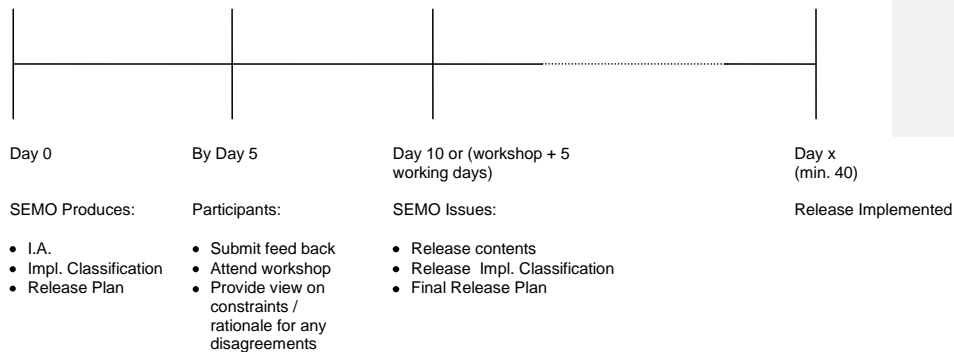


Figure 1: Timeline Representation

2.2.2.2 Emergency Releases

Where the Market Operator considers that there is a risk to the operation of the Single Electricity Market requiring an upgrade in system software or a bug-fix or there is an Implementation of an Urgent Modification, the Market Operator may schedule an Emergency Release.

Where an Emergency Release does not affect the interface with Parties (i.e. there is no requirement for Parties to modify their Isolated Market Systems) then the Market Operator shall publish a summary of the Emergency Release as soon as practicable. It is recognised that this notice may be issued immediately prior to the release. Reasonable endeavours shall be made to issue the release notification as early as possible.

Where an Emergency Release does affect the interface with Parties (i.e. there is a requirement for Parties to modify their Isolated Market Systems) then this shall be agreed through an Urgent Modification. The agreement of the Urgent Modification should also include the Release timescales and the notices that the Market Operator shall publish to Parties on the Implementation of the Emergency Release.

2.2.3 Testing

The Market Operator shall be responsible for testing Releases of its Isolated Market Systems and for ensuring that any functional changes meet the requirements of the approved Modification Proposals included in the Release.

Where the Release includes changes to the interface with Parties then the Market Operator will provide a separate Test Environment of the relevant Market Operator's Isolated Market System to enable the affected Parties to test the interface. This Test Environment will be available for a period of not less than 5 working days prior to Implementation of the Release. The date and duration of this test phase will be decided upon based on feedback solicited during the initial release consultation process. If during this phase the Market Operator becomes aware that one or more Participants is experiencing unanticipated issues during their testing the Market Operator may revise the planned release date to a later date.

Where the Release does not include changes to the interface with Parties then the Market Operator will provide a separate Test Environment of the relevant Market Operator's Isolated Market System if this has been requested as part of an approved Modification Proposal included in the Release. The Test Environment will be made available within the timescales approved in the approved Modification Proposal.

2.2.4 Implementation Procedures

2.2.4.1 Overview of Implementing new releases of Isolated Market Systems

Implementation of Releases containing approved Modification Proposals (other than Urgent Modification Proposals) must be sanctioned by the Regulatory Authorities in accordance with Agreed Procedure 12 "Modifications Committee Operation".

Implementation of Releases on the production Market Operator's Isolated Market System or Communication Channels may have an effect on Parties' interfaces with the Market Operator's Isolated Market Systems. Four categories of Implementation have been defined depending on the operational impact on Parties, namely:

Implementation Classification	Description
Normal Operation	Implementation of parts of the Market Operator's Isolated Market System which has no impact on Parties and does not require changes to Participants' Isolated Market Systems. Standard systems maintenance tasks would typically fall into this category. The Market Systems will be fully available for the duration of the implementation. Parties will not be notified.
Maintenance	This category covers planned maintenance activities which do not require Modification Panel approval. No change to Participants' Isolated Market Systems are involved. The Market Operator will provide notice detailing the planned implementation window at least 5 working days prior to release date if the Market Systems are to be unavailable during the implementation.
Application Release	This category covers implementation of application software and or system change as a result of approved Modification Proposal(s) and/or a change originating from the Market Operators Internal Change Management process. Section 2.2.2.1 'Scheduled Releases' details how these releases will be planned and implemented.
Emergency Release	Implementation of an Emergency Release. Section 2.2.2.2 contains further detail.

Table 1: Levels of Implementation

The Market Operator shall remind Participants, Meter Data Providers and System Operators of the Implementation one Working Day prior to the scheduled day of the Implementation.

On the day of the Implementation, if the Implementation is extended such that it falls outside the advised Implementation timescales and as dictated in under Agreed Procedure 7 “Emergency Communications” a particular failure category is achieved, the Market Operator will initiate the relevant procedures.

When the Implementation is completed, the Market Operator will, as soon as is practicable, inform Participants, Meter Data Providers and System Operators by email and by publishing the information on the Type 2 Channel.

For Application Releases a confirmation will be included in the Impact Assessment if the Participants will be required to have their Communication Channels re-qualified under Agreed Procedure 3 “Communication Channel Qualification” to allow use of that Communication Channel after the Implementation.

Reasonable endeavours will be made by the Market Operator to implement system change outside regular business hours and in such a way as to minimise impact on third party interaction with Market Systems.

2.2.4.2 Emergency Implementation

The Market Operator shall be required to inform all affected Parties, as soon as practicable, of the operational impact of an Emergency Implementation. Where the Emergency Implementation is initiated by an approved Urgent Modification Proposal then Market Operator shall consult with Parties as set out in the approved Urgent Modification Proposal.

2.3 PROBLEM MANAGEMENT

2.3.1 Problem Management Function

The Market Operator shall establish a Problem Management Function to consider the interim solutions to be adopted in the event of a Failure. A Failure includes a:

- General System Failure;
- General Communication Failure;
- MSP Failure;
- Limited Communication Failure where the affected Party is the Interconnector Administrator and/or;
- Failure affecting communication with a System Operator or a Meter Data Provider.

The function may be a single senior officer or a group of officers from the Market Operator.

The Market Operator will communicate the interim solutions to the relevant Parties and shall also communicate the consequences of the Failure taking into account any interim solution adopted.

2.3.2 Prioritisation of Actions

The Problem Management Function will develop the interim solutions and prioritise the restoration of Market Operator’s Isolated Market Systems to prevent the following consequences of Failures in this priority order:

- Adoption of Administered Settlement;

- Failure to meet Billing Timescales;
- Failure to provide D+4 Settlement outputs;
- Failure to provide pre-Gate [Window](#) Closure information; [and](#)
- Failure to provide D+1 Settlement outputs.

Typical Failures for each consequence and potential interim solutions are provided in Appendix 3.

2.3.3 Rectification Timelines for Failures of Market Operator's Isolated Market Systems

The MOIMS target availability is 99%. If the systems become unavailable the target rectification times described in the table below apply. The rectification/availability timelines specified are to prevent the top two critical consequences (namely Adoption of Administered Settlement and Failure to meet Billing Timescales) from occurring and to ensure that the remaining consequences are of limited duration.

Failure	Target Rectification time
Receipt of Offer Data, MSP Failure, Receipt of data from Interconnector Administrator, Meter Data Providers or System Operators	Within 2 hours of the Failure being detected.
Failure of all other parts of the Market Operator's Isolated Market System required to meet the Billing Timescales	Within 4 hours of the Failure being detected.

2.3.4 Contingency/Interim Arrangements for Failure of External Systems

External Systems include other Parties' Isolated Market Systems and the public internet. The Market Operator will develop contingency arrangements to minimise the impact of Failure of External Systems.

2.3.5 Process

The procedures under Agreed Procedure 7 "Emergency Communications", General System Failure shall be followed. Under that procedure, as soon as the Market Operator becomes aware of a Failure, the Market Operator will notify all Parties of:

- what is affected;
- the interim processes to be used to mitigate the effects of the Failure;
- the period of time that this would be used before it is escalated in the event that it is not resolved; and
- the consequent changes to reporting timescales and whether some reports (Ex-Ante [Indicative One](#) MSP Software Run / [Ex-Ante Two](#) MSP Software Run / [Within Day One](#) MSP Software Run / Ex-Post Indicative MSP Software Run / Ex-Post Indicative Settlement Statements) will be cancelled.

2.4 POST EVENT REPORTING

2.4.1 Report Initiation

In accordance with the Code, the Market Operator has an obligation to commission an externally audited report in the event of a General Communication Failure, General System Failure or MSP Failure. The report must consider the cause of the Failure and the response

of Parties to that Failure. A single process shall accommodate the reporting for the three Failure types.

A report may also be initiated prior to the rectification of a Failure.

Where there has been an incident in the SEM which, in the opinion of the Market Operator, has had a material effect on the market prices, the Market Operator shall inform the Regulatory Authorities. The Regulatory Authorities may direct the Market Operator to commission an externally audited report using the same process.

2.4.2 Process

Where a report is initiated by the rectification of a Failure, the Market Operator shall commission the report within 2 Working Days of restoring the affected system and/or Communication Channels back to their normal operational state.

Where a Failure extends beyond 5 Working Days, the Market Operator may apply to the Regulatory Authorities to determine the need for a report into the Failure in advance of resolving the problem. The Market Operator shall commission such a report within 2 Working Days of the direction given by the Regulatory Authorities.

The Market Operator shall commission a report after a Material Incident. The Regulatory Authorities and the Market Operator shall agree the timescales for the initiation and production of the report.]

The report must be completed within 5 Working Days or other timescale agreed between the Regulatory Authorities and the Market Operator.

The Market Operator shall present the report to the Regulatory Authorities within 2 Working Day of receipt of the commissioned report.

The report will be a detailed study of the cause of the Failure or Material Incident and the behaviour of all Parties during the Failure or Material Incident with particular emphasis on compliance with Agreed Procedure 7 "Emergency Communications". All Parties will be obliged to cooperate with the authors during the compilation of the report.

2.5 AUTHORISED PERSONS

2.5.1 Authorisations Overview

Wherever Parties communicate with the Market Operator via Type 1 Channel or other communication required under Agreed Procedures, then that communication must be from staff duly authorised using this Agreed Procedure.

Party staff can be authorised under one or more Authorisation Categories (see Appendix 4). Authorisation Category A allows the person to nominate and change the Authorisations of other staff from that Party. At least one Category A Authorised Person must be registered during Party registration. Where a Party does not have any valid Category A Authorised Person then a new nomination must be submitted accompanied by a letter on the company stationery and signed by a registered company director or administrator for the company.

2.5.2 Authentication

As part of the Authorisation process the following details of the Authorised Person are required:

- Full Name
- Signature
- Email address
- Password

When a communication is received from the Authorised Person the authentication information provided is dependent on the mode of communication and is described below.

Mode of Communication	Authentication information
Post	Full Name, Signature, Password
Fax	Full Name, Signature, Password
Email	Full Name, Password, Originate from registered email address

2.5.3 Authorisation Process

The authorisation procedures include the process for changing, registering and cancelling authorisations for a person and an annual confirmation of each Party's Authorised Persons.

Only Category A Authorised Persons use this procedure. If an Authorised Person who is not a Category A Authorised Person wishes to change any of their details then this must be done by a Category A Authorised Person using the amendment process.

The processes that are defined in this section are:

- Amendments of Authorised Persons including:
 - Nomination of Authorised Persons;
 - Change to the scope of Authorised Persons authority;
 - Cancellation of Authorised Persons; and
 - Confirmation of all Authorised Persons for a Party.

Annually, in January of each year, the Market Operator shall issue to each Party the Authorised Persons register for the Party. This will be sent to one of the Category A Authorised Persons for the Party.

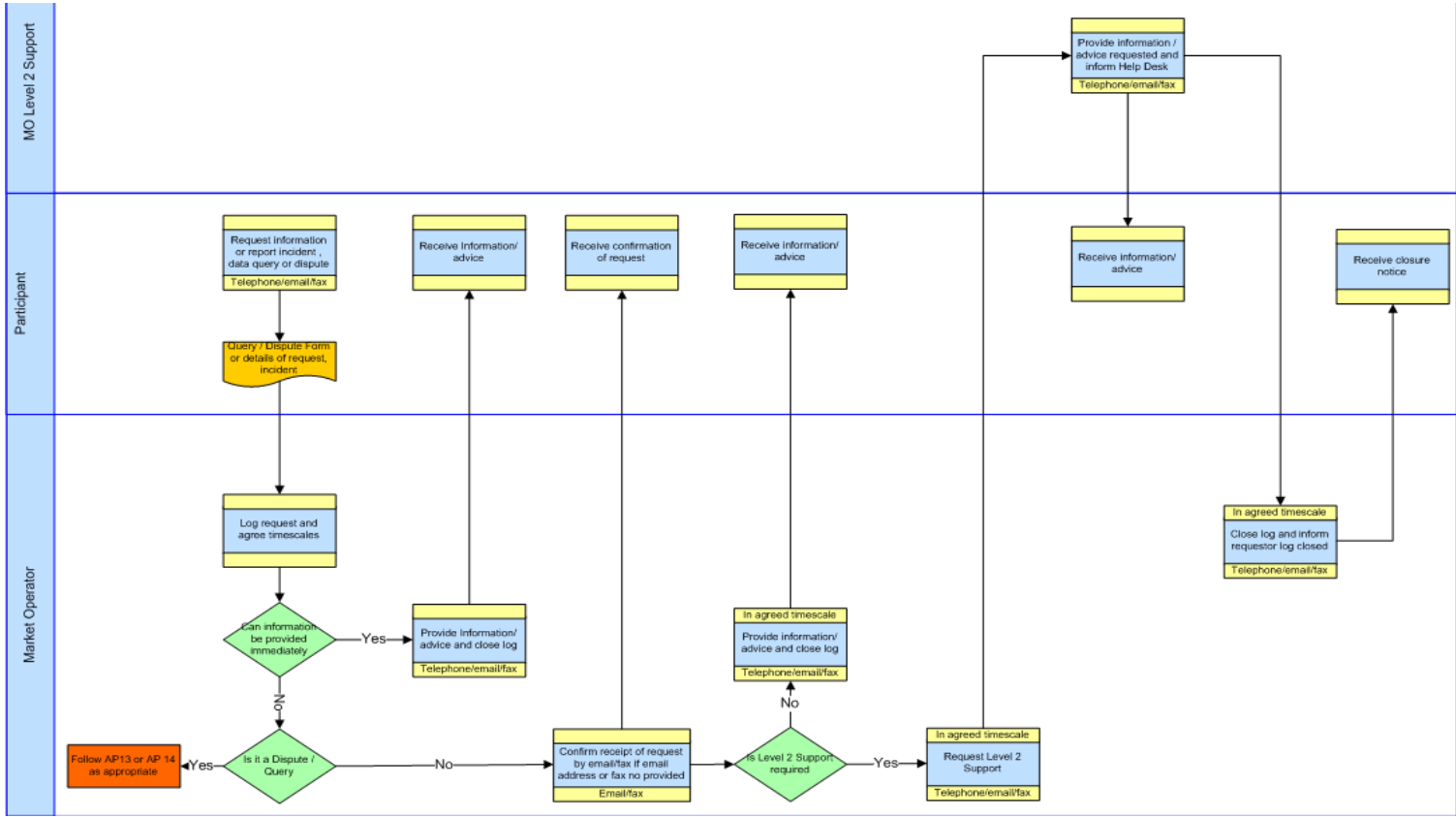
At any time a Party may request a copy of the Authorised Persons register for the Party. This may be requested by any Category A Authorised Person.

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3. SWIMLANE DIAGRAMS

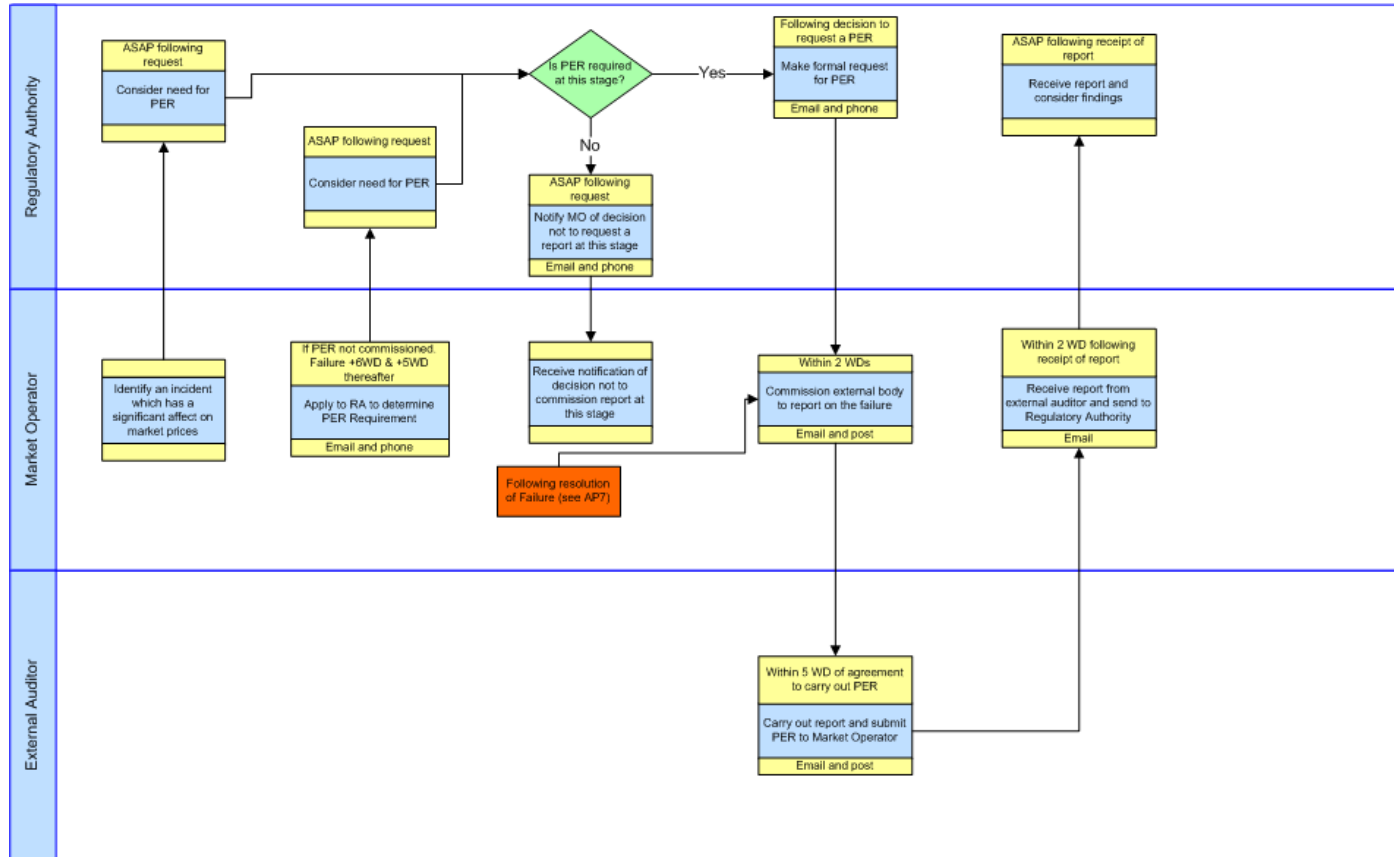
These swimlanes are provided as an illustration of the Procedural Steps. The Procedural Steps take precedence, in the event of conflict between the swimlanes and the Procedural Steps.

3.1 HELP DESK



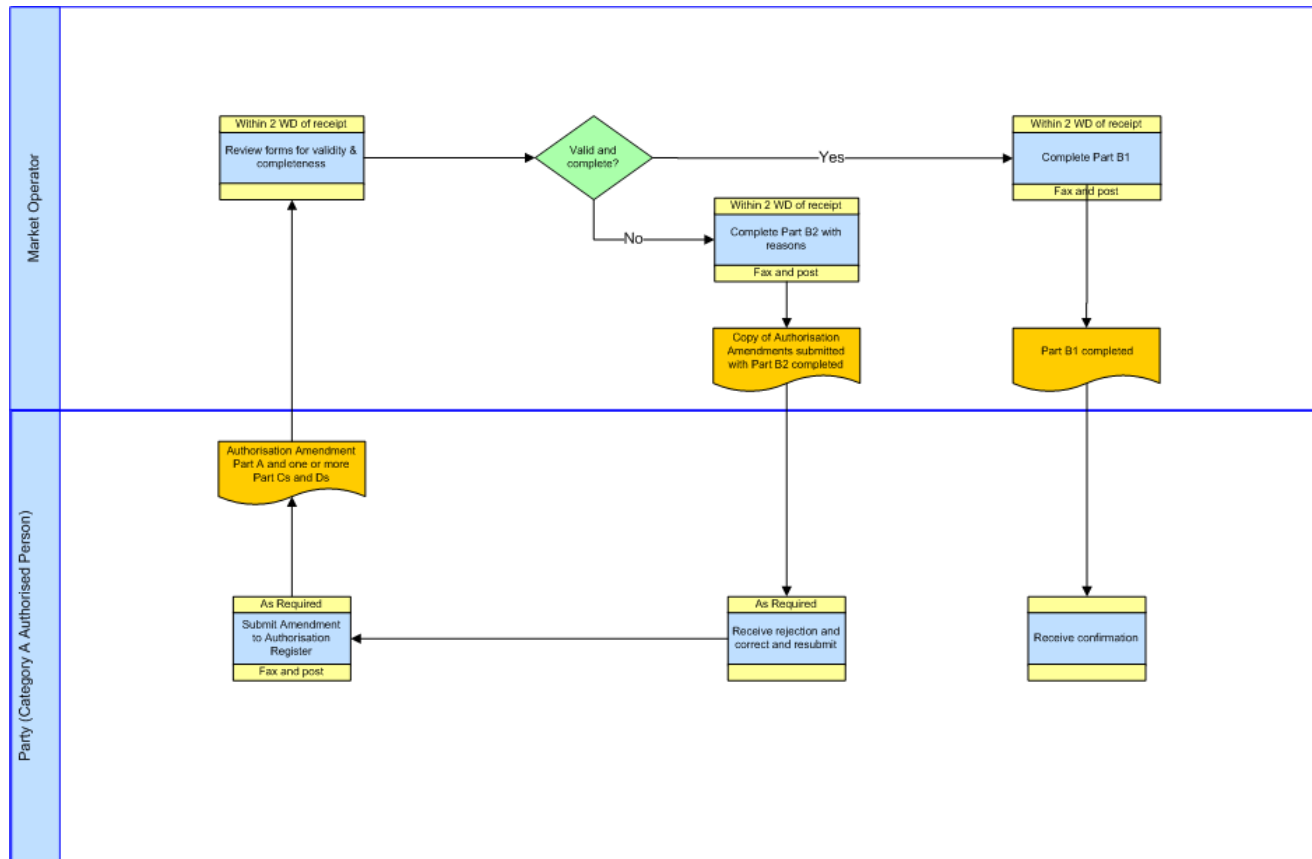
3.2 PROBLEM MANAGEMENT

3.2.1 Post Event Reporting

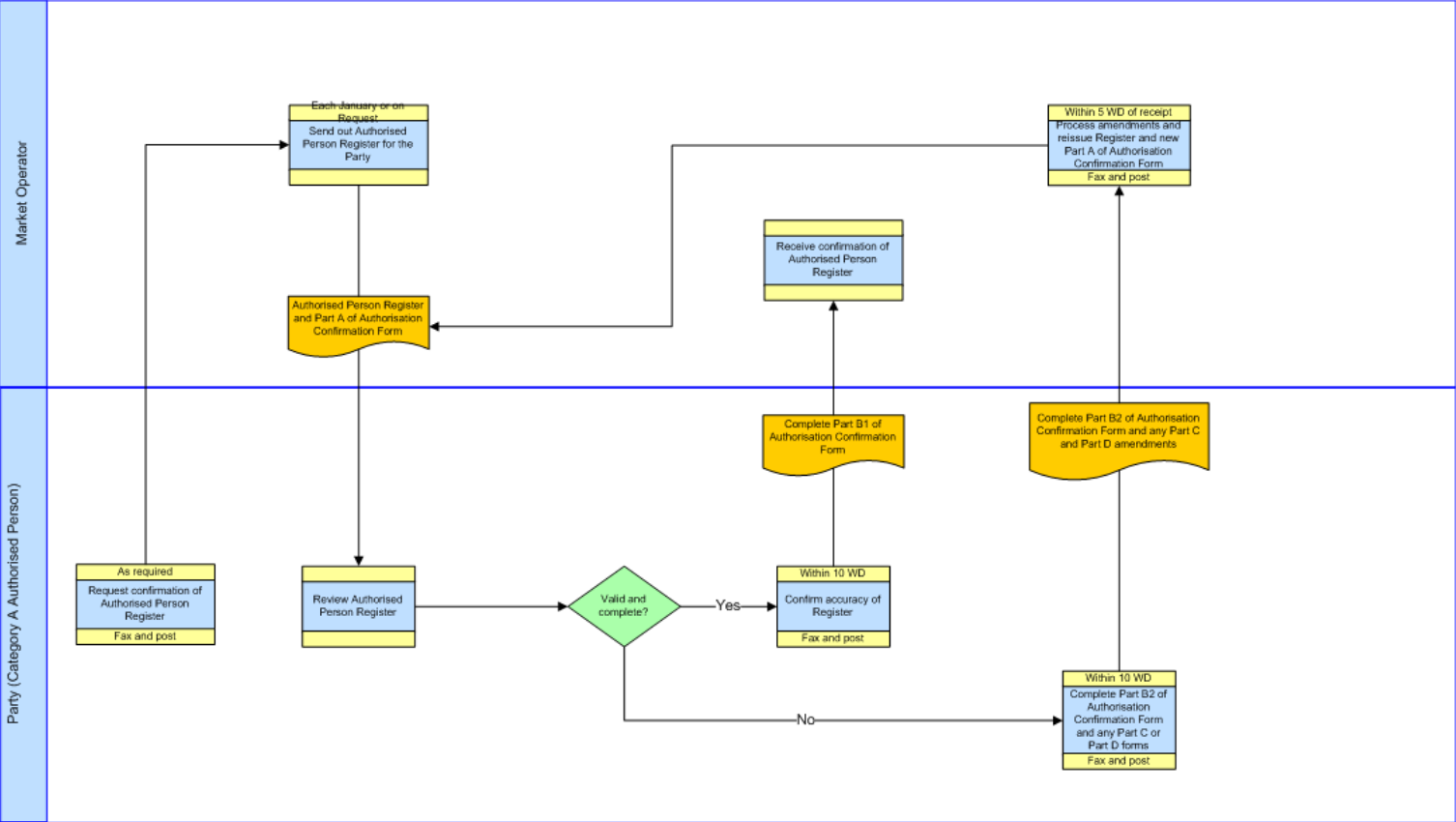


3.3 AUTHORISED PERSONS

3.3.1 Amendment to Authorised Persons



3.3.2 Authorisation Register Annual Confirmation



4. PROCEDURAL STEPS

4.1 HELP DESK

#	Procedural Step	Timing	Method (as appropriate in accordance with Agreed Procedures)	From	To
1	<p>Contact the Market Operator Help Desk, <u>either</u>:</p> <ul style="list-style-type: none"> • <u>-requesting information; or</u> • <u>-reporting an incident; or</u> • <u>-raising a Data Query, or Settlement Query, or Required Credit Cover Query; or</u> • <u>-raising a Dispute.</u> 	Within the timescales appropriate for each issue	Telephone/email/fax	Party	Market Operator
2	<p>On receipt of the telephone call, email or fax log the request on the Help Desk system. Contact the Participant that has raised the issue and agree timescales for its resolution. Record the agreed timescales on the Help Desk system</p> <ul style="list-style-type: none"> • If Help Desk Category 1 or 2 follow the process in the appropriate Agreed Procedure. • If information or advice necessary to resolve the issue can be provided immediately go to step 3. • If information or advice necessary to resolve the issue cannot be provided immediately but can be provided without reference to Level 2 support confirm the receipt by fax or email (if a fax number or email address is provided) and go to step 4. • If information or advice necessary to resolve the issue can be provided only with reference to Level 2 Support confirm the receipt by fax or email -(if a fax number or email address is provided) and -go to step 5. 	If Help Desk Category 1 or 2 then timescales as set out in the appropriate Agreed Procedure. If Help Desk Category 3, 4 or 5 and initial contact by telephone— immediate. If Help Desk Category 3,4 or 5 and initial contact by email or fax – within 1 WD	Telephone/email/fax	Market Operator (Help Desk)	Party

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#	Procedural Step	Timing	Method (as appropriate in accordance with Agreed Procedures)	From	To
3	Provide the Party with the necessary information or advice and close the log on the Help Desk system providing an explanation of the information or advice that has been given to the Participant. Go to step 8.	Within 1 WD of Party contact with Help Desk	Telephone/email/fax	Market Operator (Help Desk)	Party
4	Provide the Participant with the necessary information or advice and close the log on the Help Desk system providing an explanation of the information or advice that has been given to the Participant. Go to step 8.	In timescales previously agreed and recorded with the Party	By agreed method with the Party	Market Operator (Help Desk)	Party
5	Request Level 2 Support providing full details of the information or advice that has been requested of the Help Desk.	As soon as possible following assessment of the issue.	Telephone/email/fax	Market Operator (Help Desk)	Market Operator (Level 2 Support)
6	Consider the issue and provide the information or advice directly to the Participant. Inform the Help Desk once the information or advice has been imparted.	Within the timescales that have been agreed and recorded with the Participant	Telephone/email/fax	Market Operator (Level 2 Support)	Party
7	Close the logged Help Desk Request and inform the Participant that the log is now closed.	Within the timescales that have been agreed and recorded with the Participant	Telephone/email/fax	Market Operator (Help Desk)	Party
8	End of Process.				

4.2 IMPLEMENTATION PROCEDURES

4.2.1 Change Management For Scheduled Releases

#	Procedural Step	Timing	Method	From	To
1	Issue High Level Impact Assessment (HLIA)	As required but at least 40 days prior to proposed release date	Email and General Public Website-	Market Operator	Participants, Meter Data Providers and System Operators
2	Provide comments on supplied documentation	Within 5 days of issue of HLIA	Email	Participants, Meter Data Providers and System Operators	Market Operator
3	Hold Consultation Workshop	Within 10 days of issue of HLIA	-		
4	Consider comments and feedback			Market Operator	
5	Issue revised High Level Impact Assessment (including revised release plan).	Within 10 days of issue of HLIA or no later than 5 working days after the Consultation Workshop	Email	Market Operator	Participants, Meter Data Providers and System Operators
6	If disagreement exists with release detail then objecting party can raise an Urgent Modification	Prior to release date	Fax or Post	Objecting Party	Modifications Committee
7	Issue Release Notification	At least 1 week prior to release date	Email and Type 2 Channel	Market Operator	Participants, Meter Data Providers and System Operators

4.2.2 Implementation Steps - Maintenance/Application Release/Emergency Release

#	Procedural Step	Timing	Method	From	To
1	Perform Implementation. If Market Operator's Isolated Market System cannot return within the published timescales then go to step 2. If the return to normal operation has completed successfully then go to step 3.	At published scheduled time, for Emergency Release when required	n/a	n/a	n/a
2	Initiate procedures under Agreed Procedure 7 "Emergency Communications" as a General Communication Failure. Inform Participants, Meter Data Providers and System Operators of the failure to complete the Implementation within published timescales.	As soon as is practicable	Fax or post, email, and Type 2 Channel	Market Operator	Participants, Meter Data Providers and System Operators
3	On return to normal operations inform Participants, Meter Data Providers and System Operators.	As soon as is practicable.	Email and Type 2 Channel	Market Operator	Participants, Meter Data Providers and System Operators
4	Participants, Meter Data Providers and System Operators invoke internal procedures to return to normal.	After Implementation.	n/a	Participants, Meter Data Providers and System Operators	

4.3 PROBLEM MANAGEMENT

There are no procedural steps for Problem Management. Agreed Procedure 7 “Emergency Communications” details the process to be followed in the event of a General Communication Failure, a General System Failure and a Limited Communication Failure.

4.4 POST EVENT REPORTING

#	Procedural Step	Timing	Method	From	To
1	<p>If a General System Failure, General Communication Failure or MSP Failure has been rectified go to step 2.</p> <p>If a General System Failure, General Communication Failure or MSP Failure has gone beyond 5 WDs go to step 4</p> <p>If the Regulatory Authorities direct the MO to commission a report go to step 5.</p>	n/a	n/a	n/a	n/a
2	Commission an external auditor to compile a report into the Failure. Go to step 6	Within 2 WDs following the resolution of the fault	Email and post	Market Operator	External auditor
3	Make an application to the Regulatory Authorities to determine the need at this stage for a Post Event Report.	If Post Event Report not yet commissioned then on the 6 th WD of a live failure and every 5 WD thereafter during the live failure	Email	Market Operator	Regulatory Authorities
4	<p>Notify Market Operator whether there is a need at this stage for a Post Event Report.</p> <p>If there is a need for a Post Event Report make a formal request and go to Step 5.</p> <p>If there is not a need for a Post Event Report, inform MO. The process stops at this stage until a further trigger for a request for a report is forthcoming or a report is automatically triggered.</p>	Within 1WD of request	Email	Regulatory Authorities	Market Operator

#	Procedural Step	Timing	Method	From	To
5	Commission an external auditor to compile a report into the Failure or into a Material Incident	Within 2 WDs of request from RA	Email and post	Market Operator	External auditor
6	Carry out the report and submit the completed Post Event Report to the Market Operator.	Within 5 WD of agreement to carry out a Post Event Report	Email and post	External auditor	Market Operator
7	Receive the report from the external auditor and send to the Regulatory Authorities.	Within 2 WDs of receipt of the Post Event Report from the external auditor	Email	Market Operator	Regulatory Authorities

4.5 AUTHORISED PERSONS

4.5.1 Amendment to Authorised Persons

#	Procedural Step	Timing	Method	From	To
1	Submit Authorisation Amendment Form Part A and the indicated numbers of Part C (New/Changes to Authorisation) and Part D (Cancellation Of Authorised Person).	As required	Fax or post	Party (Category A Authorised Person)	Market Operator
2	Review forms Submitted. If valid and complete proceed from step 5. If invalid or incomplete proceed from step 3.	-	-	Market Operator	-
3	Complete Part B2 of the Authorisation Amendment Form with explanation of invalidity of incompleteness.	With 5 WD of receipt	Fax or post	Market Operator	Party (Category A Authorised Person issuing the revision)
4	Correct errors and proceed from Step 1.	As required	Fax or post	Party (Category A Authorised Person)	Market Operator
5	Complete Part B1 of the Authorisation Amendment Form.	With 5 WD of receipt	Fax or post	Market Operator	Party (Category A Authorised Person issuing the revision)

4.5.2 Confirmation of Authorised Persons

#	Procedural Step	Timing	Method	From	To
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#	Procedural Step	Timing	Method	From	To
1	Request confirmation of Authorised Person Register.	As required		Party (Category A Authorised Person)	Market Operator
2	Send out Authorised Person Register and Authorisation Confirmation Form with Part A complete.	Within 5WD of receipt of request or in annual confirmation timescale each January	Fax or post	Market Operator	Party (Category A Authorised Person)
3	Review Authorised Person Register. If valid and complete proceed from step 6. If invalid or incomplete proceed from step 4.	-	-	Party (Category A Authorised Person)	-
4	Complete Authorisation Amendment Forms Part C and Part D as necessary to correct any errors and complete with Part B2 of the Authorisation Confirmation Form.	Within 10 WD	Fax or post	Party (Category A Authorised Person)	Market Operator
5	Process Authorisation Amendment Forms received and proceed from step 2 with a new Authorisation Confirmation Form.	With 5 WD of receipt	Fax or post	Market Operator	Party (Category A Authorised Person issuing the revision)
6	Complete Part B1 of the Authorisation Confirmation Form.	Within 10 WD	Fax or post	Party (Category A Authorised Person)	Market Operator

APPENDIX 1: DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

Administered Settlement	As defined in the Code
Agreed Procedure	As defined in the Code
Authorisation	The process by which a person from a Party becomes authorised to communicate with the Market Operator.
Authorisation Amendment Form	The form which needs to be completed in order to add or remove Authorised Persons
Authorisation Category	Identifies the type of communication that an Authorised Person is authorised to make
Authorisation Confirmation Form	The form sent to (and returned by) Participants confirming their Authorised Persons
Authorised Person	Representative of a Party who is authorised by that Party to communicate with the Market Operator
Authorised Person Register	Register of Authorised Persons for each Party which is held by the Market Operator.
Billing Timescales	The timescales in which billing occurs
Category A Authorised Person	An Authorised Person who has been granted an Authorisation Category A
Code	As defined in the Code
Commercial Offer Data	As defined in the Code
Communication Channel	As defined in the Code
Confirmation Notice	As defined in the Code
Market Operator Website	As defined in Agreed Procedure 1 "Participant and Unit Registration and Deregistration"
Data Query	As defined in the Code
Data Transaction	As defined in the Code
Detailed Impact Assessment	Analysis carried out to identify the detailed implications of a change enabling the approval or otherwise of a change

Dispute	As defined in the Code
Emergency Implementation	Implementation of an Emergency Release
Emergency Implementation Form	Form sent to Participants, Meter Data Providers and System Operators to inform of an Emergency Release
Emergency Release	An upgrade in system software, a bug-fix or an Implementation of an Urgent Modification, where the Market Operator considers that there is a risk to the operation of the Single Electricity Market.
Failure	A General System Failure or MSP Failure or a failure of the MSP Software or a General Communication Failure or a Limited Communication Failure as the context implies
Finance System	Financial element of the Market Operator's Isolated Market System
Gate Window Closure	As defined in the Code
General Communication Failure	As defined in the Code
General System Failure	As defined in the Code
Help Desk	Help Desk provided by the Market Operator where Parties can seek technical and operational advice
Help Desk Category	Category between 1 and 5 applied to a Help Desk Request
Help Desk Request	Request handled by the Help Desk
High Level Impact Assessment	Analysis carried out to identify the implications of a change
Implementation	Delivery of Releases on the production Market Operator's Isolated Market System or Communication Channels
Implementation Day	Day of Implementation of a Release
Interconnector Administrator	As defined in the Code
Interface Documentation Set	Interface documentation, to include technical and functional details and data definitions. It shall be under Market Operator version control. The listing shall not include the items' version numbers but shall be under

	Market Operator version control.
Isolated Market System	As defined in the Code
Level 2 Support	Market Operator technical or business experts with the knowledge and expertise to assist / resolve issues and incidents with the Market Operator's Isolated Market System or with the configuration of Communication Channels.
Limited Communication Failure	As defined in the Code
Market Operator	As defined in the Code
Material Incident	An incident which, in the opinion of the Market Operator, has had a material impact on market prices/SMP/MSQs.
Meter Data Provider	As defined in the Code
Modification	As defined in the Code
Modification Proposal	As defined in the Code
Modifications Committee	As defined in the Code
MSP Failure	As defined in the Code
MSP Software	As defined in the Code
Offer Data	As defined in the Code
Participant	As defined in the Code
Party	As defined in the Code
Post Event Report	An externally audited report produced in the event of a General Communication Failure, General System Failure or MSP Failure.
Problem Management Function	A single senior officer or a group of officers from the Market Operator who will develop interim solutions and prioritise the restoration of Market Operator Isolated Market Systems in the event of a Failure
Registration Data	As defined in the Code
Regulatory Authorities	As defined in the Code
Release	An update to the Market Operator Isolated Market Systems

Required Credit Cover Query	As defined in the Code.
Scheduled Release	As defined in the Code
Secretariat	As defined in the Code
Settlement	As defined in the Code
Settlement Query	As defined in the Code
Settlement Reallocation	As defined in the Code
Settlement Reallocation Request	As defined in the Code
Settlement System	Any software system used as part of the Settlement process
Single Electricity Market	As defined in the Code
System Marginal Price	As defined in the Code
System Operator	As defined in the Code
Test Environment	A non-production version of a Market Operator's Isolated Market System used for test purposes prior to a Release
Type 2 Channel	As defined in the Code
Unit Registration	As defined in the Code
Urgent	As defined in the Code
Working Day	As defined in the Code

ABBREVIATIONS

AP1	Agreed Procedure 1 "Participant and Unit Registration and Deregistration"
AP4	Agreed Procedure 4 "Transaction Submission and Validation"
AP7	Agreed Procedure 7 "Emergency Communications"
AP9	Agreed Procedure 9 "Credit Risk Management"
AP10	Agreed Procedure 10 "Settlement Reallocation"
AP11	Agreed Procedure 11 "Market System Operation, Testing, Upgrading and Support"
AP12	Agreed Procedure 12 "Modifications Committee Operation"

AP13	Agreed Procedure 13 “Query Generation”
AP14	Agreed Procedure 14 “Disputes”
MO	Market Operator
MOIMS	Market Operator Isolated Market System
MSQ	Market Schedule Quantities
RA	Regulatory Authorities
SEM	Single Electricity Market
SMP	System Marginal Price
URL	Uniform Resource Locator (i.e. website address)
WD	Working Day
WSDL	Web Service Definition Language

APPENDIX 2: FORMS

EMERGENCY IMPLEMENTATION FORM

Emergency Implementation Form

MO Implementation Ref:

Part 1 – Initial Notification

Date Sent:

Planned Date / Time of Implementation Commencement:

Planned Date / Time of Implementation Completion:

Implementations Details:

Change Requests *(List all Change requests included in Release):*

Name (Market Operator):

Signature:

Part 2 – Completion Notification

Date Sent:

Date / Time of Implementation Completion:

Implementations Details:

All Change Requests itemised in Part 1 except the following:

Name (Market Operator):

Signature:

STANDARD IMPLEMENTATION PROPOSAL FORM

Implementation Proposal Form

MO Implementation Ref:

Part 1 – Initial Notification

Date Sent:

Planned Date / Time of Implementation Commencement:

Planned Date / Time of Implementation Completion:

Implementations Details:

Change Requests *(List all Change requests included in Release):*

Name (Market Operator):

Signature:

Part 2 – Participant Comments

Date Sent:

Participant Id:

Participant Name:

General Comments on Implementation:

Suggested alternative Implementation Dates / Times:

Name *(Participant staff authorised to submit comment):*

Signature:

Password:

STANDARD IMPLEMENTATION -NOTIFICATION FORM

Implementation Notification Form

MO Implementation Ref:

Part 1 – Revised Notification

Date Sent:

Planned Date / Time of Implementation Commencement:

Planned Date / Time of Implementation Completion:

Implementations Details:

Change Requests *(List all Change requests included in Release):*

Name (Market Operator):

Signature:

Part 2 – Confirmation Notification

Date Sent:

The Implementation listed above is proceeding,

Commencing on (Date/time)

Completing on (Date/time)

Name (Market Operator):

Signature:

Part 3 – Completion Notification

Date Sent:

Date / Time of Implementation Completion:

Implementations Details:

All Change Requests itemised in Part 3 except the following:

Name (Market Operator):

Signature:

LEVEL 3 ALTERNATIVE COMMUNICATION FORM

Alternative Communication Channel during Level 3 Implementation

– Notification

Market Operator Implementation Ref:

Party Id:

Party Name:

Commencement of Alternative Communication:

(Date/Time or "On commencement of the Implementation")

Termination of Alternative Communication:

(Insert Date/Time or "On completion of Implementation")

Name *(Participant staff authorised to submit):*

Signature:

Password:

Attachments: Transaction Notification Form (TNF) (see AP7 for TN Form)

Authorisation Amendment Form Part A Authorisation

This section to be completed by a Category A Authorised Person and should be attached as affront sheet to completed Part(s) C and/or D as required.

Party Ref:**Date Sent:****Market Operator Ref:****Date Received:****Details of Category A Authorised Person completing this Form**

Party ID: _____ Party Name: _____

Name of Authorised Person: _____

Email Address of Authorised Person: _____

Signature of Authorised Person: _____

Password of Authorised Person: _____

Number of New/Amended/Cancelled Authorisations attached

Number of Part C Authorisation Amendments: _____

Number of Part D Authorisation Amendments: _____

Authorisation Amendment Form Part B1 Acceptance Acknowledgement

Market Operator Staff Name:

Signature:

Date Sent:

Authorisation Amendment Form Part B2 Rejection Acknowledgement

Reasons for rejection: *Provide reason and annotated copies of submitted Part Cs and Ds*

Market Operator Staff Name:

Signature:

Date Sent:

Authorisation Amendment Form Part C New/Changes to Authorisation

This section to be completed as necessary for each required new authorisation or amended authorisation application, with each application on a separate page. All authorisation level boxes must be completed with either a Yes or No

Effective From Date:

Details of Person being Authorised:

Name:

Position:

Telephone Number:

Fax Number:

Signature:

Password (8 Character):

Email Address

Is authorised for the following processes:

Category	Description	Yes/No
A	Change Authorisations	
B	Submit Data Queries, or Settlement Queries <u>or Required Credit Cover Queries</u>	
C	Submit Settlement Disputes	
D	Submit Settlement Reallocation Requests, Commercial Offer Data & Technical Offer Data	
E	Declare Limited Communication Failure	
F	Request/Agree Change in Communication Channel	
G	Intermediary Authorisation	
H	Ad-Hoc Report request	
I	Submit/Modify Unit Registration and/or Interconnector Data	
J	Request Return of Collateral	
K	Person to be notified in event of General System Failure and/or General Communication Failure	
	Requesting Digital Certificates	

Authorisation Amendment Form Part D Cancellation of Authorisation

This section to be completed as necessary for each required cancellation, with each cancellation on a separate page.

Effective From Date:

Details of Person whose Authorisation is being cancelled:

Name:

Position:

AUTHORISATION CONFIRMATION FORM

Authorisation Confirmation Form Part A

Market Operator Ref:

Date Sent:

Page 1 of

Party Ref:

Date Received:

Details of Category A Authorised Person to whom this Confirmation Form is being sent.

Party id:

Party Name:

Category A Authorised Person Name:

Category A Authorised Person Position:

Attached is the Authorisation Register for your Party. Please could you review and confirm the accuracy of the register by completing Part B1 below. If there are errors in the register please provide Authorisation Amendment Forms Part C and/or Part D for each Authorised Person whose details are incorrect and completed Part B2 below.

Authorisation Confirmation Form Part B1 - No Errors Acknowledgement

Party Category A Authorised Person Name:

Signature:

Date Sent:

Password:

Email Address:

Authorisation Amendment Form Part B2 - Errors Acknowledgement

Party Category A Authorised Person Name:

Signature:

Date Sent:

Password:

Email Address:

Number of New/Amended/Cancelled Authorisations attached

Number of Part C Amendments:

Number of Part D Amendments:

APPENDIX 3: POTENTIAL FAILURES AND TYPICAL CORRECTIVE ACTIONS

Failure Group	Failure	Action	Maximum Duration
Participant Data Receipt	Unable to receive Data Transactions from Participants	Implement process for General Communication Failure outlined in Agreed Procedure 7 "Emergency Communications"	5 Working Days
	Unable to validate the Data Transactions from Participants	Implement a manual procedure for validating received Data Transactions and issue Confirmation Notices via fax	5 Working Days
	Unable to issue Data Transactions or the Confirmation Notices / failure for the received validated Data Transactions	Send Confirmation Notices via fax and for all other Data Transactions will use any method agreed under Type 1 Communication Channel	5 Working Days
System Operators Communication Failure	Unable to extract Registration Data, Offer Data from the Market Operator Isolated Market System	Implement Administered Settlement	N/A
	Unable to send Registration Data, Offer Data to the System Operators	Market Operator and each affected System Operator will agree an alternative secure method for transferring the data for each type of Data Transaction	5 Working Days
MSP Failure	MSP Software cannot run, MSP Software fails to provide usable results or a Meter Data Provider is not able to produce the meter data	None (After 3 Working Days implement Administered Settlement)	3 Working Days

Failure Group	Failure	Action	Maximum Duration
	Meter Data Providers/Interconnector Administrators are able to produce the meter data but unable to send it through a Communication Channel	Market Operator and each affected Meter Data Provider/Interconnector Administrator will agree an alternative secure method for transferring the data for each type of Data Transaction	5 Working Days
Settlement Failure	Settlement cannot run Or Masterfile from Market Operator's Isolated Market System to Settlements cannot be produced or transferred	None (After 3 Working Days implement Administered Settlement)	3 Working Days
Finance System Failure	Finance System cannot run	Implement manual procedures to ensure payments are made to the relevant Participants	5 Working Days
	Data from Settlements System cannot be transferred to the Finance System	Use alternative data transfer methods or implement manual procedures to ensure payments are made to the relevant Participants	5 Working Days

APPENDIX 4: AUTHORISATION CATEGORIES

Category	Description	Agreed Procedure
A	Change Authorisations	AP11
B	Submit Data Queries, or Settlement Queries <u>or Required Credit Cover Queries</u>	AP13
C	Submit Settlement Disputes	AP14
D	Submit Settlement Reallocation Requests, Commercial Offer Data & Technical Offer Data	AP4, AP7, AP10
E	Declare Limited Communication Failure Request/Agree Change in Communication Channel	AP7, AP11
F	Intermediary Authorisation	AP1
G	Ad-Hoc Report request	
H	Submit/Modify Unit Registration and/or Interconnector Data	AP1
I	Request return of Collateral	AP9
J	Person to be notified in event of General System Failure and/or General Communication Failure	AP7
K	Requesting Digital Certificates	AP3