

Market Change Request

Number		Title	Priority
MCR	0097	Amendments to MPD 15 (Data Processing - QH Meter) to satisfy new requirements for SEM Implementation	<i>HIGH</i>

Date	Version	Reason For Change
24/10/2006	1.0	Draft for IGG Review
15/11/2006	1.1	As detailed in "Responses to AIP MCR Comments". Ref. 4, 5

PART 1 CHANGE REQUEST:

Name of Requesting Organisation	ESB Networks AIP / RMDS		
Contact name	Theresa O'Neill		
Date Change Request Raised	<i>25/10/2006</i>	Originating Discussion Request	
		DR	'Impact of AIP on ROI Retail Market', Draft Ver 0.41'

Detail of Change Request

In order to introduce the Single Electricity Market there are a number of changes required to the existing Retail Market processes. This MCR relates to the Market Process surrounding QH Data Processing.

The reasons for the changes are :-

- Updates to metering responsibilities as a result of SEM
- A new term "Export Arrangement" will be introduced to identify each stream of export data for that site. This is because Non-Participant Generators can now register their export against multiple Supplier Units, i.e. to a maximum of 3 Supplier Units.

Detailed changes to MPD 15 – Data Processing – QH Meter :-

These changes are described below (from page 4), containing:-

1. History of Changes
2. ARIS Process Flow Diagram
3. ARIS Process Flow Diagram – Supporting Text
4. Supplementary Information - changes

Note: Details of new Data Items and Definitions can be found in MCR 120.

Reason for Change Request

Introduction of the Single Electricity Market

Scope of Change Request

Correction to Documentation	Business Process	Market & MP Systems	MPC	Readings Processor	Market Gateway	Schema	Web Forms
	Y	Y	Y		Y		
Identification of Baseline Products Impacted							
1. MPD 15 Data Processing QH							
Description of Trading & Settlement Code Impact (if any)							

PART 2 MARKET ASSURANCE:				
Applicability				
ESB Networks	Suppliers	TSO	SSA/SMO	Generators
Y	Y	Y		
Scope of Test				
Connectivity	DTT	MSA	IPT	Other
			Y	
			No. Of Scenarios	
			TBC	
Date of issue of Change Request				
Date response is required				

PART 3 RESPONSES AND MODIFICATIONS:
Collation of Impact Assessment <i>(from Form C)</i>
<i>Not Applicable</i>
Modifications Included
<i>Not Applicable</i>
Reason for Modifications
<i>Not Applicable</i>

PART 4 ASSESSMENT & RECOMMENDATION:
Part 4(a) ASSESSMENT
Summary of Impact Assessment
Recommendation on Implementation Plan

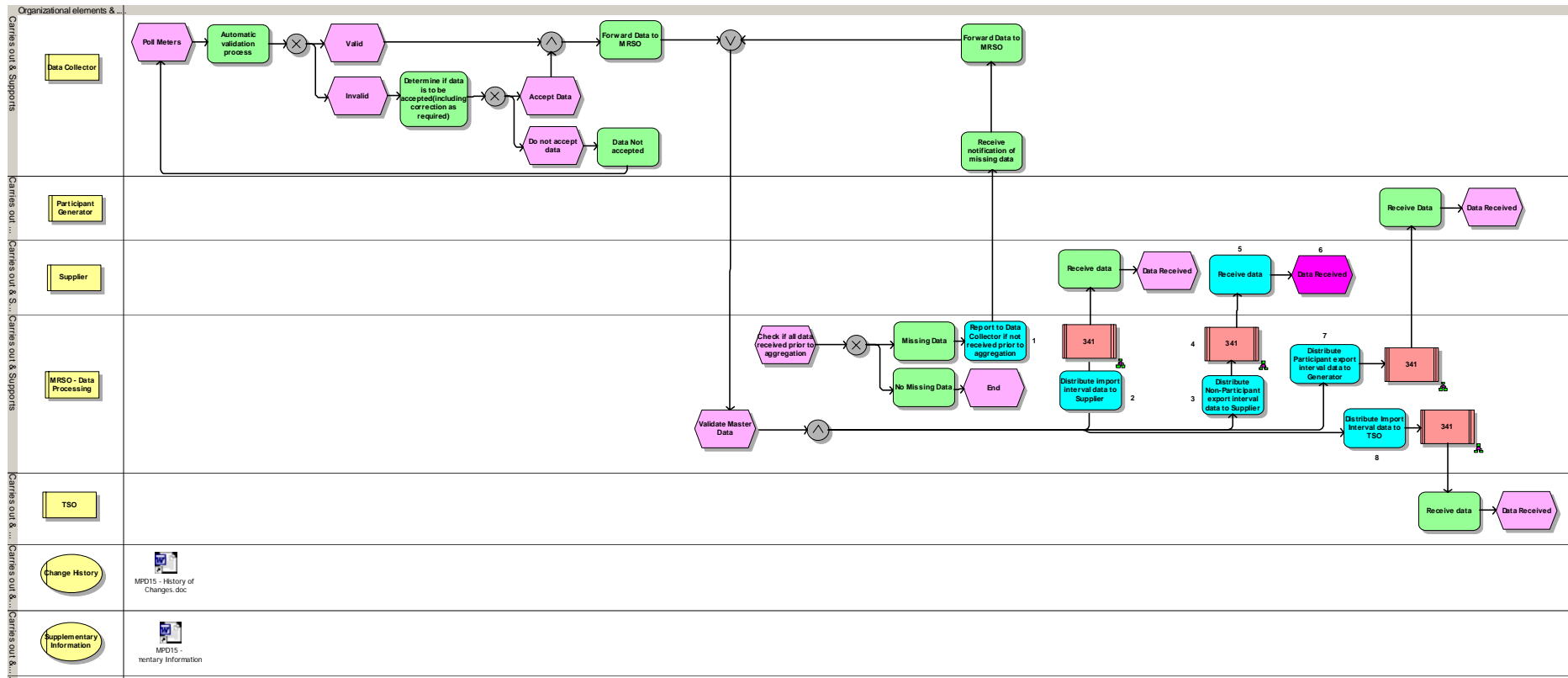
Part 4(b) RECOMMENDATION			
ACCEPTANCE	REJECTION	NO RECOMMENDATION	COMMENT
Reason for Recommendation			
Date of Recommendation			

1. History of Changes

This Procedure includes the following changes

B69	Validation of QH Data
B70	Communication of Import on Export Sites
B95	Annual Verification, subject to approval by CER
B153	Changes to include application of Transformer Loss Factors
	No Change applied since Version 4.0 DRAFT
	No Changes applied since V 4.1
	Changes applied since Version 4.2
MCR 0044	Information to TSO and Suppliers on netted date on 341 message Removal of Data Aggregation Netting
DRR 0015	Correction to Page 5 for export sites
	No Changes applied since V 4.3
	Changes applied since V4.4
DRR 0083	Update to text to specify channel of communication for notification of changes
	Changes applied since V 5.0
MCR 0072	Minor updates to text in Supplementary Information
	Changes applied since V 5.1
MCR0097	Amendments to satisfy new requirements surrounding data collection and Non Participant Generators of SEM implementation. This will necessitate changes to:- ARIS Process Flow Diagram, Supporting Text and Supplementary Information.

2. ARIS Process Flow Diagram



MPD 15 updated.xls

For a printout of the ARIS Process Flow Diagram across multiple pages please use the following file:-

3. ARIS Process Flow Diagram – Supporting Text

Details of the amended processes and new processes where the Description expands on the Name are listed below :-

1.

Name	Report to Data Collector PDS if not received prior to aggregation
Description	Report to Data Collector PDS if not received prior to aggregation

2.

Name	Distribute import interval data to Supplier
Description	For each QH meter where import occurs on an export site that is netted for DUoS purposes then both gross and net import are kWh are communicated to the Supplier for active power on the 341 message . Where export exceeds import in an interval then the net import communicated is zero. Gross import only shall be communicated to the Supplier in all cases for: <ul style="list-style-type: none"> • Active power where there is not netting for DUoS purposes • Reactive power Where a Transformer Loss factor is to be applied to kW and kVA readings then the values after the application of the factor will be sent. These values are used in aggregation. Import and Export QH data is distributed separately for a specific read date when a complete set of data for the Meter Point is available as and when a complete set of data is available. For Import data the 341 Market Message will not contain data within the Generator MPID and Generator Unit ID fields.

3.

Name	Distribute Non-Participant export interval data to Supplier
Description	For meter points that are Non Participant Generators, market message 341 containing QH export data will be sent to the Supplier nominated in the export arrangement. Where the output sales have been split, 341 messages containing the split QH export data will be sent to the Supplier nominated in the export arrangement. Where there are percentage split export arrangements in place, the Active Power split will be calculated and populated on a 341 market message per export arrangement. There will be no Reactive Power on these 341 messages. For Non-Participant Generator Export data the 341 Market Message will not contain data within the Generator MP ID field but will contain an Export Arrangement reference number within the Generator Unit ID field.

7.

Name	Distribute Participant export interval data to Generator
Description	For meter points that are Participant Generator export sites all export QH data will be sent to the Generator following validation. For Participant Generator Export Data the 341 market message will contain the Generator MPID in the MPID field and the Generator Unit ID in the Generator Unit ID field.

8.

Name	Distribute import interval data to TSO
Description	For meter points that are import sites only, i A copy of the Import data sent to the Supplier will be sent to the Transmission System Operators following validation.

4. Supplementary Information - Changes

Supplementary Information - Changes

1. Supplementary Information

1.1 Validation for QH Data

The Data Collector shall undertake the following validations and checks on an ongoing basis as described in the QH Validation, Estimation and Substitution Rules.

- Data is collected from expected Device Id
- Number of channels is as expected
- Device time is as expected
- Pulse overflows
- Number of time intervals collected is as expected
- Data does not exceed high or low demand values
- Difference between total of QH Data and advances determined from cumulative energy registers does not exceed 2%
- Alarms
- Zero intervals do not exceed tolerance

1.2 Master Data Validation for QH Data

MRSO will check and investigate the following situations:

- Data is received for a date where the meter point is terminated on the date.
- Non zero QH data occurs during a day throughout which the Meter Point is not energised
- An export site with MEC \geq 10 MW has no Generator Unit ID associated. In addition, MRSO will carry out a manual periodic audit check on remaining export sites with no generator unit ID or export arrangement associated to ensure correct records are maintained
- Import occurs and there is no Supplier associated with the Meter Point

1.3 Data Replacement

The Data Collector may replace QH data at any time. In general, data will only be replaced if:

- A meter is proved to be inaccurate or faulty, or tampering has occurred
- QH data is proved to be inaccurate
- Actual data becomes available where an estimate was previously provided
- A more accurate estimate becomes available, as calculated from actual register data that has become available

When QH data is used within Initial Aggregation and then replaced, this will be confirmed by MRSO to the Supplier (and/or Generator in the case of Generator export) and Transmission System Operator via email and/or telephone on the next working day after the replacement data has been sent. Original data used in any of Indicative, Initial and first Re-aggregation at M+4 and previous re-aggregations will be replaced by any revised the new data for the next re-aggregation.

In the case where a Participant Generator has nominated another market participant as the recipient of their messages then only the nominated recipient of the Participant Generator's market messages will receive notification of replacement QH data being sent from ESB networks.

1.4 Estimated Data in Market Messages

QH Read data will continue to be processed and sent to Market participants as soon as it is available, with the target timeline for Aggregation moving from D+10 to D+4.

- Exception is PES until Global Aggregation.

Existing processes for replacement data will continue i.e. where actuals replace estimates, these will continue to be sent to Market participants as soon as possible.

Existing SLA for the provision of 100% QH data for Supplier/TUOS Billing purposes –currently by D+10 - is unaffected.

Indicative Aggregation is required at D+1. This means that all QH read data, import and export, if available, be collected for all QH sites included in Indicative Aggregation. Where no read data is available it must be estimated for use in Indicative Aggregation.

MRSO will not include this estimated QH data in the 341 QH read Market Message at D+1.

Therefore, the practice for the 341 Message is

- Actual data will always be sent
- Estimated Data will be retained until D+4
 - and where on D+4 no actual data is available, estimates are sent in the 341 message

Initial Aggregation is required at D+4. This means that all QH read data, import and export, must in so far as possible, be collected for all QH sites included in Initial Aggregation.

- Where no read data is available, the estimate generated at D+1 will be used in Initial Aggregation
- When actual data has been subsequently obtained where previously it was estimated for the D+1 Indicative Aggregation, the actual data will be used in Initial Aggregation

341 Market message at D+4

At D+4, the 341 Market messages sent to Market Participants will include

- actual data that has arrived on D+4 and has replaced an estimate generated for Indicative Data Aggregation at D+1
- estimated data from D+1 if no actual has been received
- and in addition, as normal, any other actual data that has been collected that day

- and actual data received at D+1,D+2,D+3 will already have been issued

1.5 Market Messaging

341 Market Messages will be issued to the following parties in the following scenarios:

- All Import data will be issued to the TSO and to the Supplier registered for import
- Participant Export Data will be sent to the Participant Generator (or their nominated Supplier as per Working Practice 012)
- Non Participant Export Data per export arrangement will be sent to the Supplier nominated in the export arrangement. For details of Non Participant Generators and Export Arrangements see MPD 7(1.1) New DSO-Connected Non-Participant Generator Sites

Import 341 data and export 341 data will never be combined in a 341 message..

1.6 Responsibilities between MRSO and TSO for Polling and Publishing Data

This section is included as a Placeholder. Content will be clarified following completion of ongoing discussions.