

1

## FRC B2M Process Flows Sequence Diagrams

For the SA and WA Gas Retail Markets.

Version: 3.5 Last Update : 31 October 2016

## AEMO Version History

Versio	Date	Author(s)	Changes and Comments
n			
0.1	30/9/03	D Bone	Create shell
0.2	1/10/03	S. Jovanoski	Updated with Process Maps and Sequence Diagrams
0.3	2/10/03	S. Jovanoski	Updated with feedback from LogicaCMG
1.0	3/10/03	S. Jovanoski	Update with feedback from LogicaCMG and consistency checks
2.0	19/11/03	S Jovanoski, Z Gemmell, M Decker	<ul> <li>Updated to incorporate:</li> <li>Amendments included in 24 October 2003 version of <i>RMR</i>;</li> <li>Amendments included in BS C1.5 and ICD V1.5</li> <li>Internal review;</li> <li>Participant feedback on version 1.0.</li> <li>Added process flows for Balancing, Allocation and Reconciliation (BAR)</li> </ul>
2.01	1/12/03	Z Gemmell	Updated to incorporate comments received from Alinta Sales and Alinta Networks in response to v2.0
2.9	19/1/04	Z Gemmell	<ul> <li>Updated to incorporate:</li> <li>Comments received at the Quality Workshop (held 4&amp;5 December 2003);</li> <li>Participant feedback on version 2.01</li> <li>Amendments included in version 3.0 of the <i>RMR</i>; and</li> <li>Internal review.</li> </ul>
3.0	7/5/04	Z Gemmell	<ul> <li>Updated to incorporate:</li> <li>Amendments included in version 4.0C of the <i>RMR</i>; and</li> <li>Amendments included in version 3.0 of the Interface Control Document</li> </ul>
3.1	1/6/05	REMCo	Updated to reflect amendments incorporated in RMR V5.0.
3.2	15/11/05	REMCo	Updated to reflect amendments incorporated in <i>RMR</i> V5.2: - update of number of business days for processing permanent removal requests (R6); and - new flow chart for BAR calculation suspension process.
3.3	17/11/05	REMCo	Addition of RF(B2M)- BAR 14 Recalculation of Gas Day Results
3.4	15/08/2011	L.Mills (AEMO)	Generic documentation changes, including the addition of a preamble for the document to be applicable in the SA and WA gas retail markets.
3.5	31 October 2016	C Sambaoa (CGI) and D,McGowan (AEMO)	Update for transition to AEMO



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#### 2. Introduction

The Business-to-Market (B2M) process flow charts contained in this document have been developed and updated as a working aid to assist the implementation of the South Australia and Western Australia Gas Retail Markets (SA/WA markets). They use the 'swimming lane' style and show the business process flow(s) between market participants, including links to and from B2B process flows.

When reading and using this document, please note the following:

- 1. The process flow charts are designed to complement, but not replace, the following source documents:
  - Retail Market Procedures (RMP);
  - Business Specification;
  - Interface Control Document (ICD).

The latest approved versions of these documents are published on AEMO's website.

- 2. While a reasonable effort has been made to ensure that these process flow charts are consistent with the *RMP* and the ICD, there may be differences between the process flow charts and the source reference documents. If there is a difference, the *RMP* and the ICD take precedence.
- 3. The process flow charts are not designed to aid the development of the B2B requirements for the SA/WA markets. The B2B process flows are provided separately in AEMO's Information Pack and cross reference the B2M process flows.
- 4. The process flow charts are designed to, where possible, aid the identification of the necessary transactions between market participants. The following information is provided, where known:
  - Victorian Gas Market physical transaction name;
  - ICD logical transaction name;
  - Medium type eg aseXML, manual notice;
  - *RMP* clause reference(s).
- 5. The process steps within individual businesses are indicative only and do not necessarily identify all required process steps nor do they mandate the use of a particular process.
- 6. The drawing conventions used for these diagrams are as follows:
  - a. Multiple flow arrows exiting from a process step indicate two or more independent process flows that occur following the step. If a flow is conditional that condition will be noted on the flow arrow.
  - b. Alternative flows are indicated by a decision box containing a question.
- 7. The process flow charts are supported by sequence diagrams in Appendix A; where applicable.
- 8. The document has been divided into logical components reflecting the *RMP* and ICD structures:

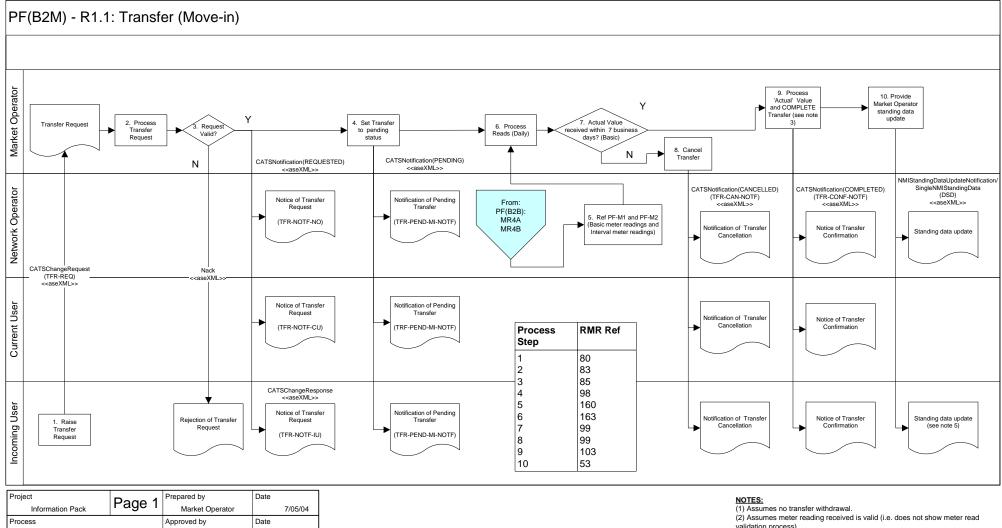
- AEMO Registry
- Balancing and Reconciliation (BAR)
- Databases
- Metering
- Appendix A Sequence Diagrams.
- 9. Related Documents are listed in the table below (the latest versions are available on the AEMO website):

Ref	Artefact Name	<b>Responsible Party or Authors</b>
1	Retail Market Procedures	AEMO
2	Business Specification	AEMO
3	Interface Control Document	AEMO

### 3. AEMO Registry

# **AEMO Registry**

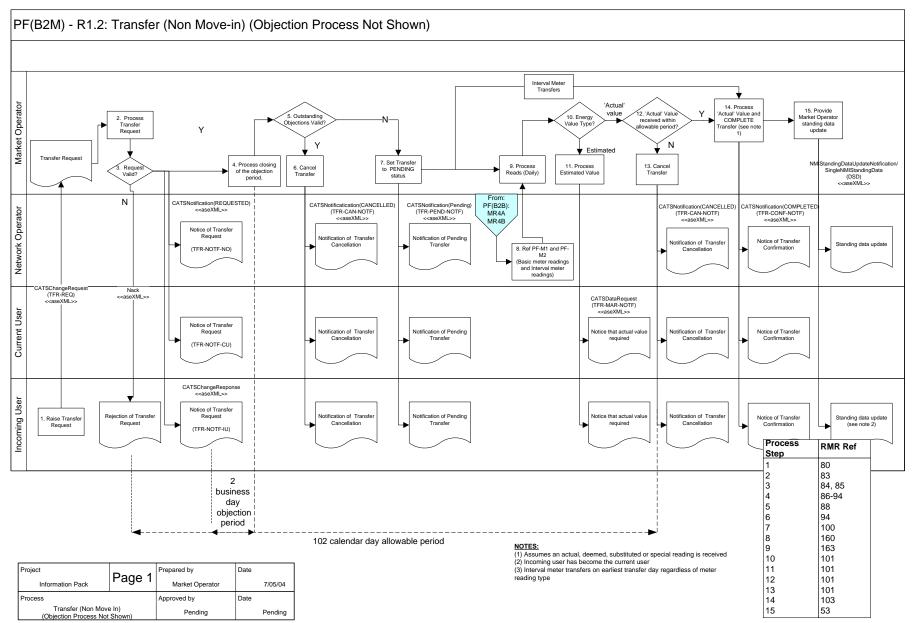
PF(B2M) - R1.1 Transfer (Move-in)



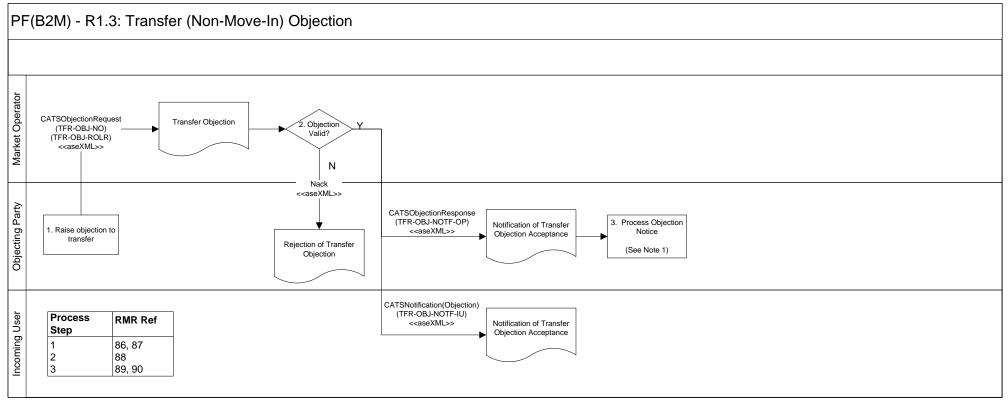
validation process)

(3) Assumes an actual, deemed, substituted or special reading is received (4) Assumes Network Operator does not send a NACK on CATSNotification (5) Incoming user has become the current user

#### PF(B2M) - R1.2: Transfer (Non Move-in) (Objection Process Not Shown)



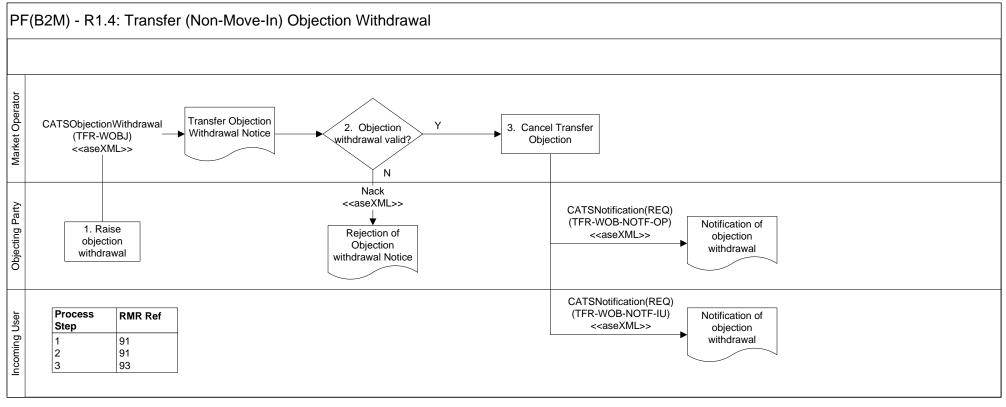
PF(B2M) - R1.3: Transfer (Non-Move-In) Objection



Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Transfer (Non-Move-In) Objection		Pending	Pending

NOTES: (1) "Process Objection Notice" leads into the "Transfer Objection Withdrawal" process.

#### PF(B2M) - R1.4: Transfer (Non-Move-In) Objection Withdrawal

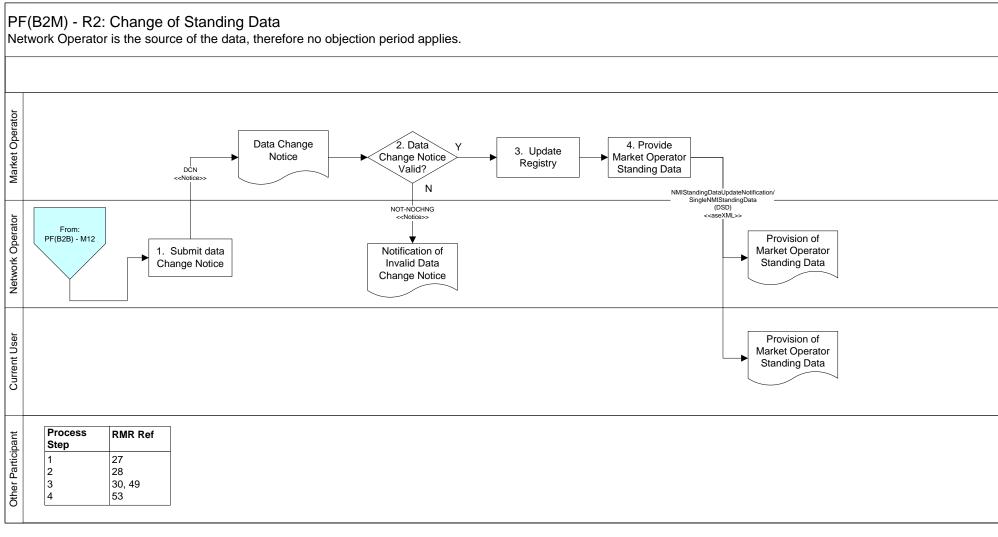


Project	Page 1	Prepared by	Date	
Information Pack		Market Operator		7/05/04
Process		Approved by	Date	
Transfer (Non-Move-In) Objection Withdrawal		Pending		Pending

#### NOTES:

(1) In the event of multiple objections, the physical transaction at Step 3 may be CATSNotification(OBJ) or CATSNotification(PEN)

#### PF(B2M) - R2: Change of Standing Data

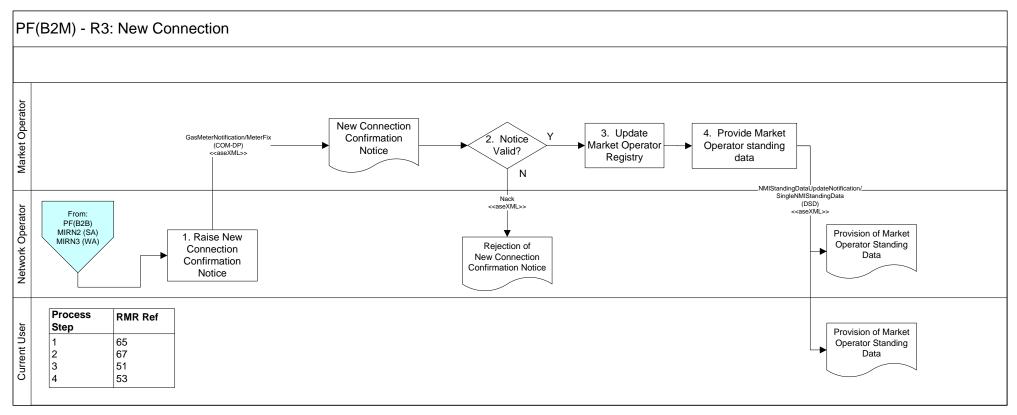


Project	Page 1	Prepared by	Date
Information Pack	raye i	Market Operator	7/05/04
Process		Approved by	Date
Change of Standing Data (Initiated by Network Operator)		Pending	Pending

#### NOTES:

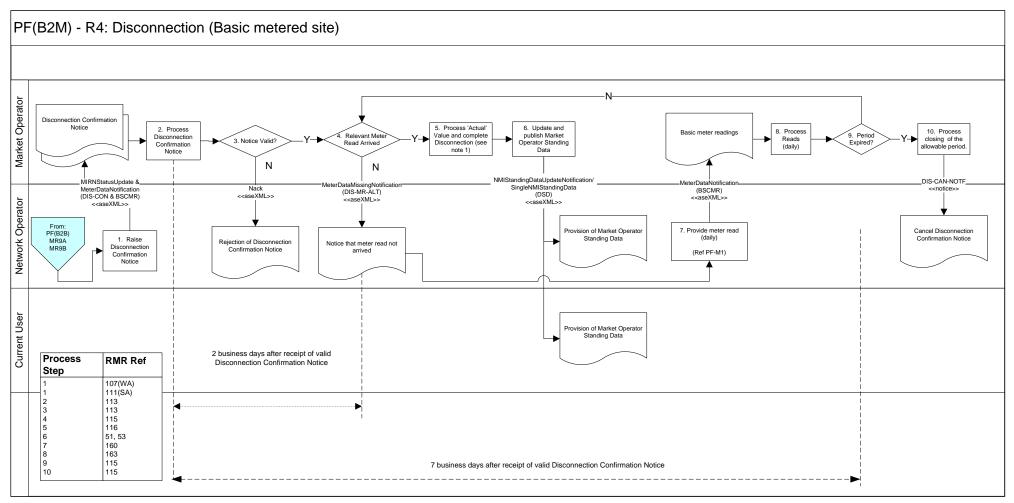
(1) Process flow does not show the process for multiple data change transactions.

#### PF(B2M) - R3: New Connection



Project	Daga 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
New Connection		Pending	Pending

#### PF(B2M) - R4: Disconnection

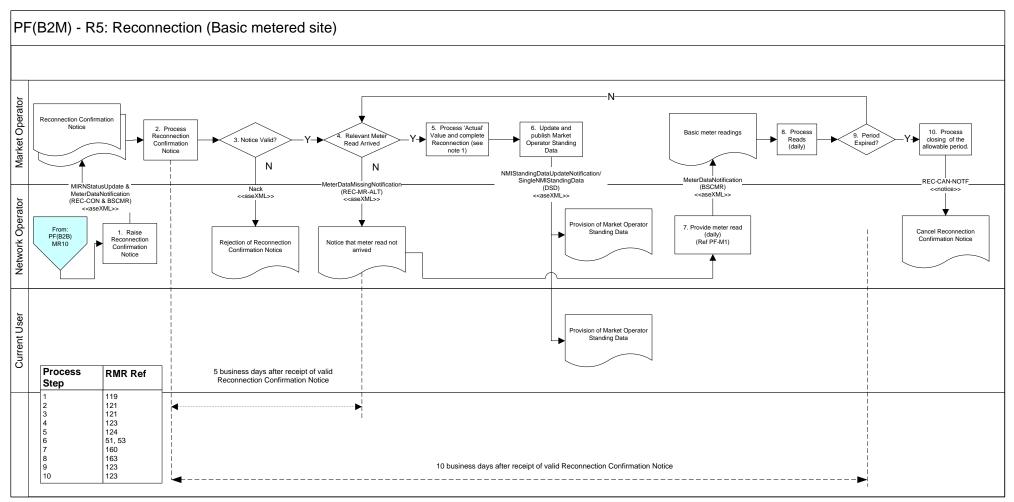


Project	Daga 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Disconnection (Basic Metered Site)		Pending	Pending

#### NOTES:

 (1) Assumes an actual, estimated, or subtituted meter reading is received.
 (2) Same process applies for interval meters, where the only change is the type of meter reading provided at step 7.
 (3) Assumes no other transactions (e.g. reconnection) are in progress

#### PF(B2M) - R5: Reconnection

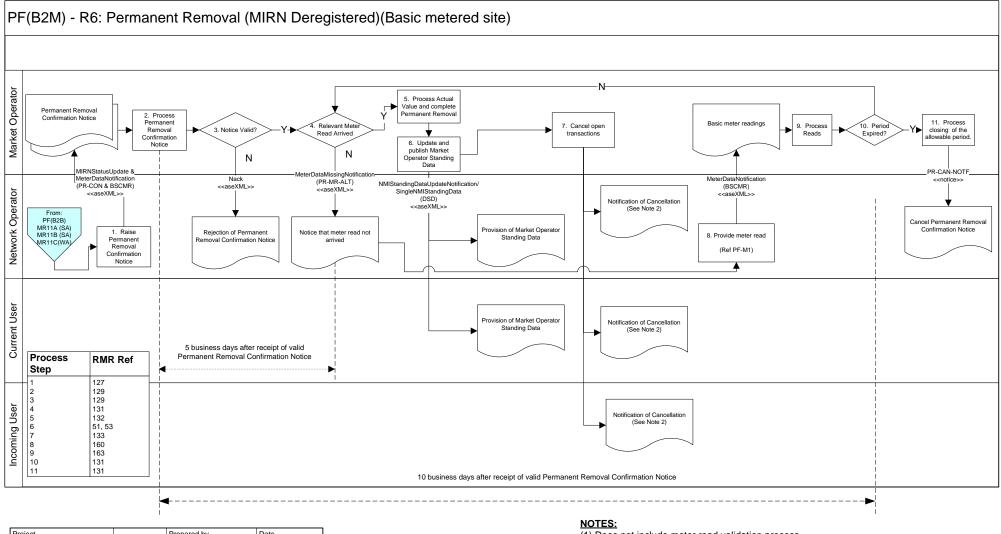


Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Reconnection (Basic Metered Site)		Pending	Pending

NOTES:

 Assumes an actual, estimated, or subtituted meter reading is received.
 Same process applies for interval meters, where the only change is the type of meter reading provided at step 7.
 Assumes no other transactions (e.g. disconnection) are in progress.

#### PF(B2M) - R6: Permanent Removal

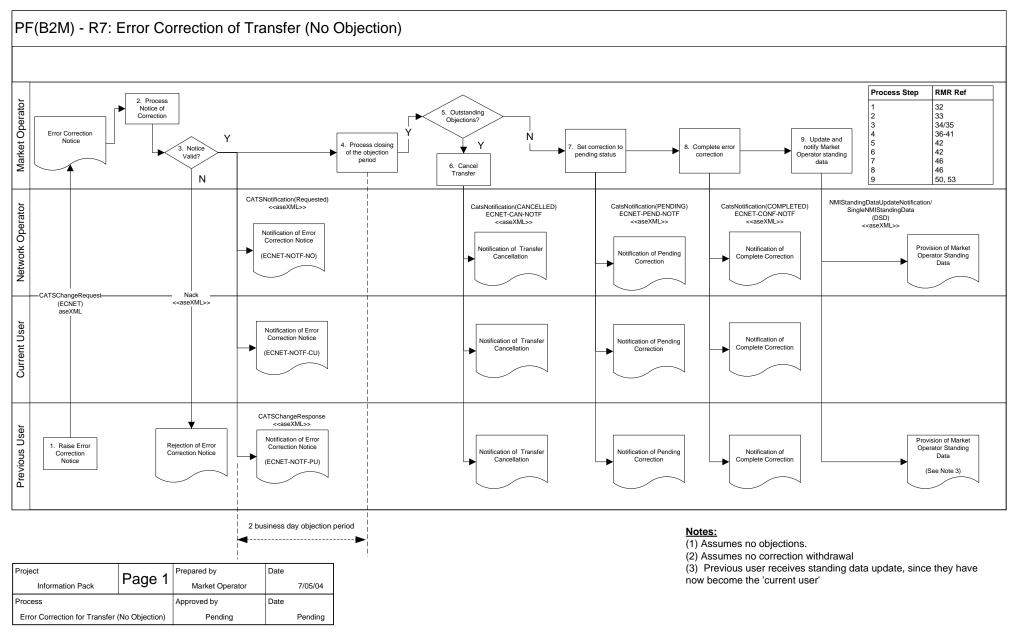


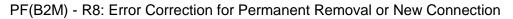
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	14/09/2005
Process		Approved by	Date
Permanent Removal (Basic Metered Site)		Pending	Pending

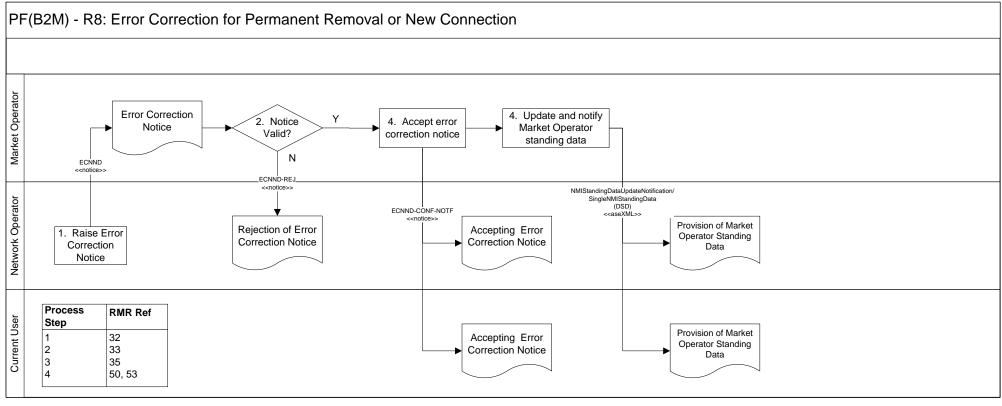
Does not include meter read validation process.
 Four cancellation types:

 CATSNotification(CANCELLED); TFR-CAN-NOTF; aseXML;
 CATSNotification(CANCELLED); ECNET-CAN-NOTF; aseXML;
 DIS-CAN-NOTF; Notice;
 N REC-CAN-NOTF; Notice.

#### PF(B2M) - R7: Error Correction of Transfer (No Objection)







Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Error Correction for Permanent Removal or New Connection		Pending	Pending

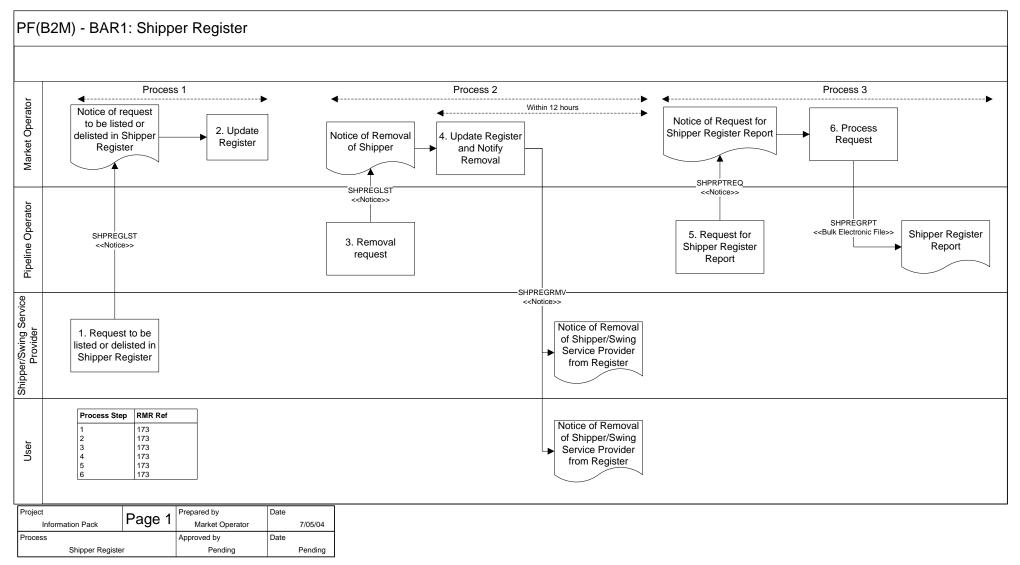
NOTES:

 Initiated by Network Operator via GRMS Operations Staff.
 Correction withdrawal process not shown.

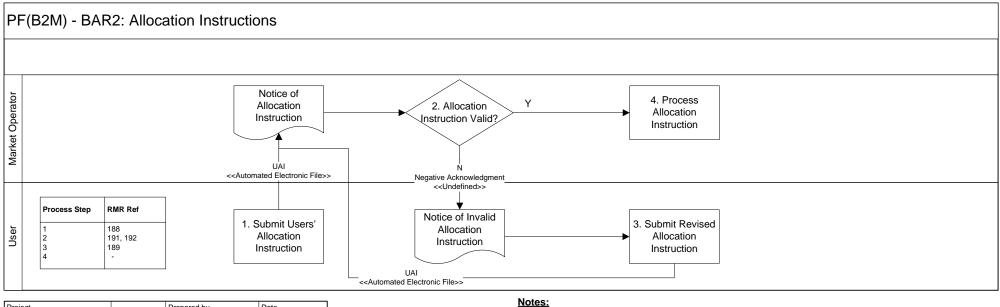
4. Balancing And Reconciliation (BAR)

## Balancing And Reconciliation

#### PF(B2M) - BAR1: Shipper Register



#### PF(B2M) - BAR2: Allocation Instructions

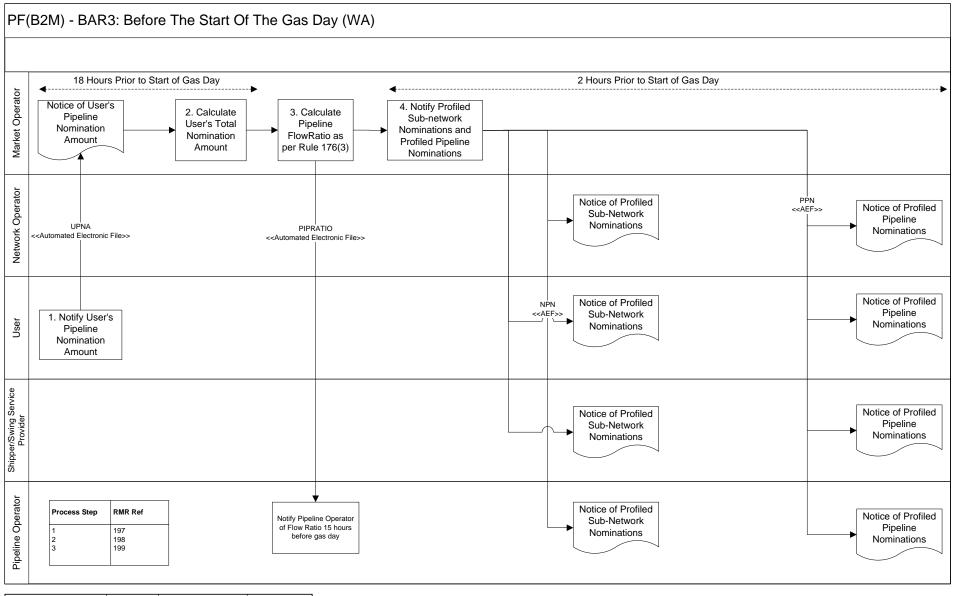


Project	Dogo 1	Prepared by	Date	
Information Pack	Page 1	Market Operator	7/05/04	
Process		Approved by	Date	
Allocation Instructions		Pending	Pending	

(1) Users may submit revised Allocation Instructions up to 9 hours after the start of the gas day. (2) If no valid Allocation Instruction received, REMCo to determine User's Allocation Instruction and advise of this value (as per Rule 192). The relevant transactions are UA-SHP, UAI-SUBS and NOT-UAI-USR.

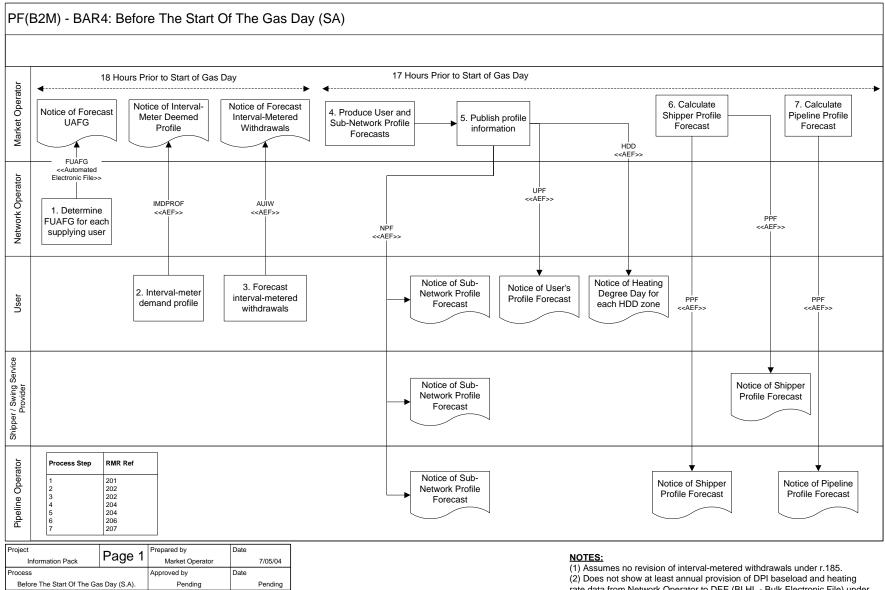
(3) If REMCo determines a user's allocation instruction in accordance with Rule 192 (note (2) above), a user may still submit a revised allocation instruction subject to (note (1)) Rule189(2).

PF(B2M) – BAR3: Before The Start Of The Gas Day (Western Australia)

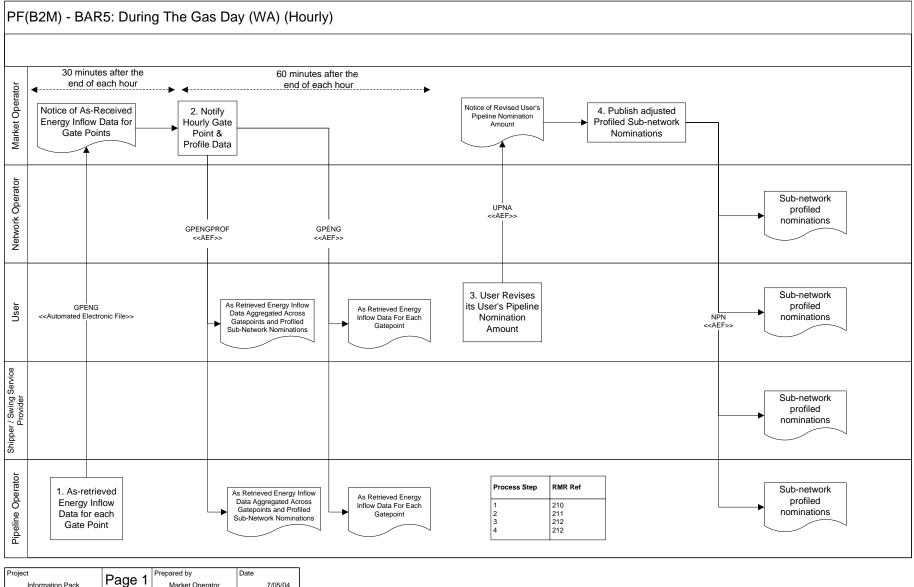


Project	Daga 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Before The Start Of The Gas Day (W.A).		Pending	Pending

#### PF(B2M) – BAR4: Before The Start Of The Gas Day (South Australia)

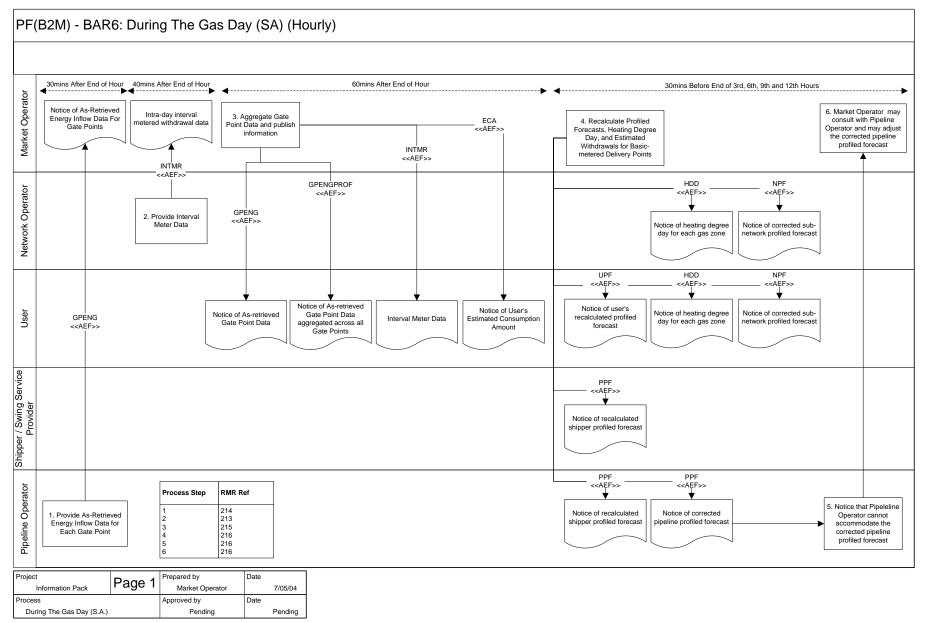


#### PF(B2M) – BAR5: During The Gas Day (Western Australia) (Hourly)

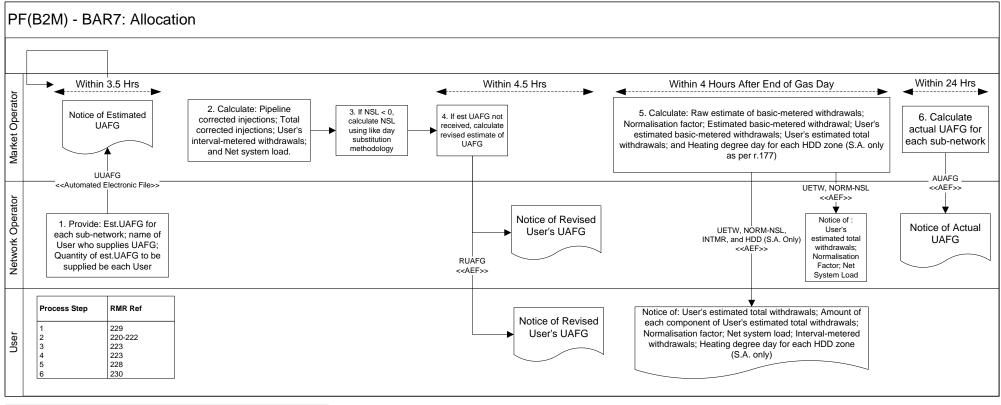


Information Pack	Market Operator	7/05/04
Process	Approved by	Date
During The Gas Day (WA).	Pending	Pending

#### PF(B2M) - BAR6: During The Gas Day (South Australia) (Hourly)

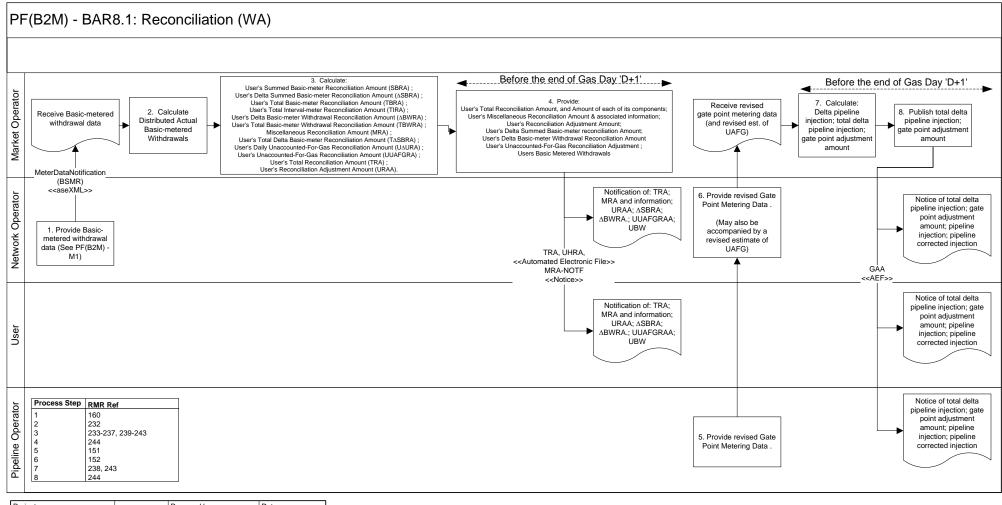


#### PF(B2M) – BAR7: Allocation



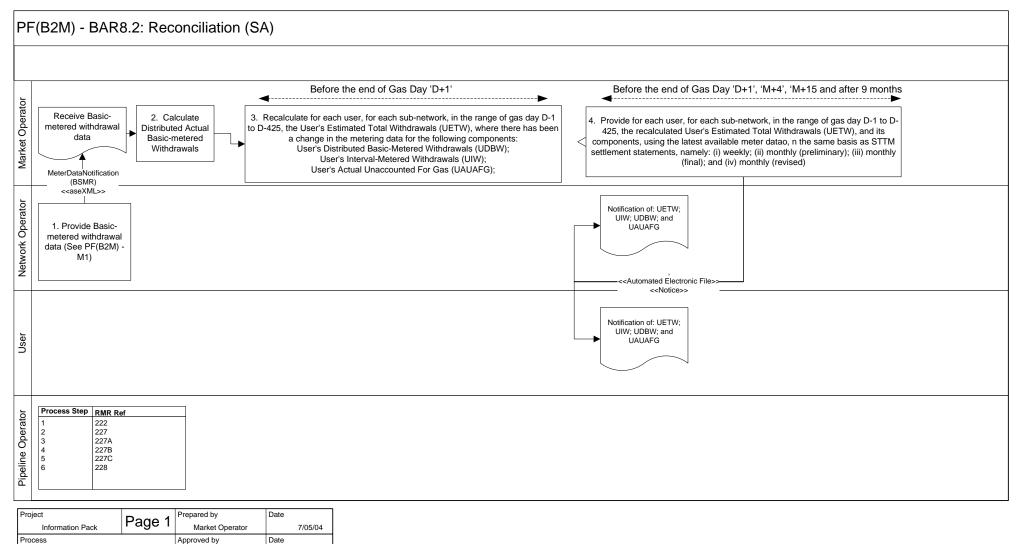
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Allocation		Pending	Pending

#### PF(B2M) – BAR8.1: Reconciliation (WA)



Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Reconciliation		Pending	Pending

PF(B2M) - BAR8.2: Reconciliation (SA)



Approved by

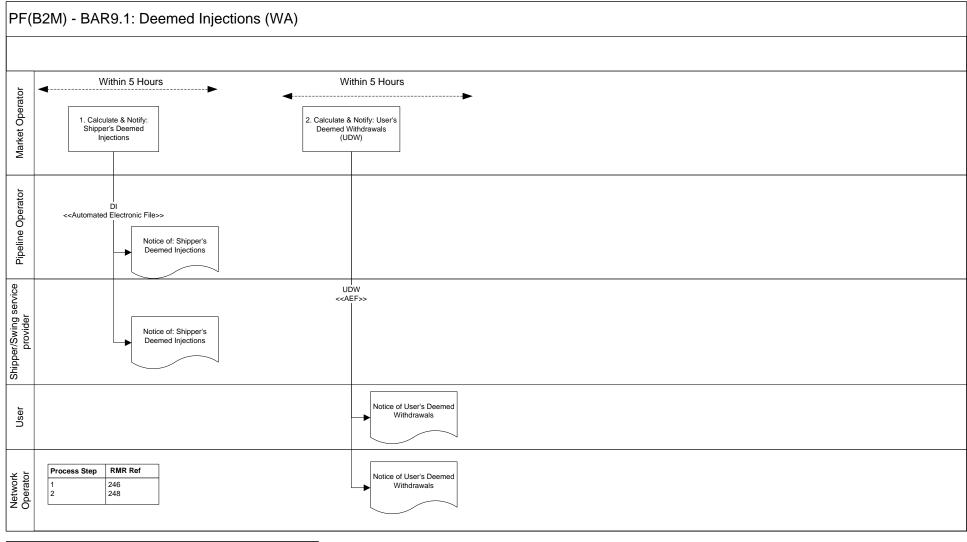
Pending

Pending

Process

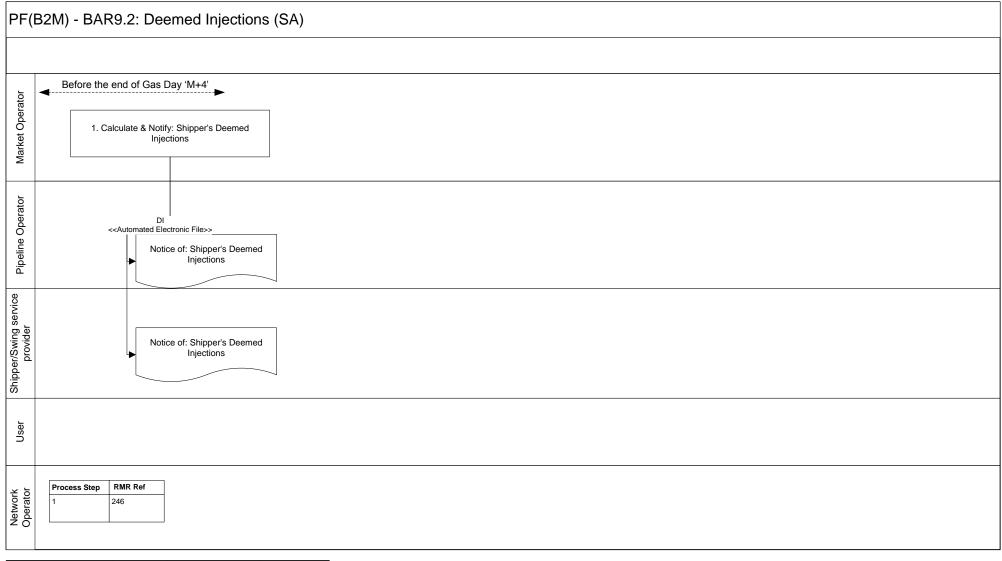
Reconciliation

#### PF(B2M) – BAR9.1: Deemed Injections (WA)



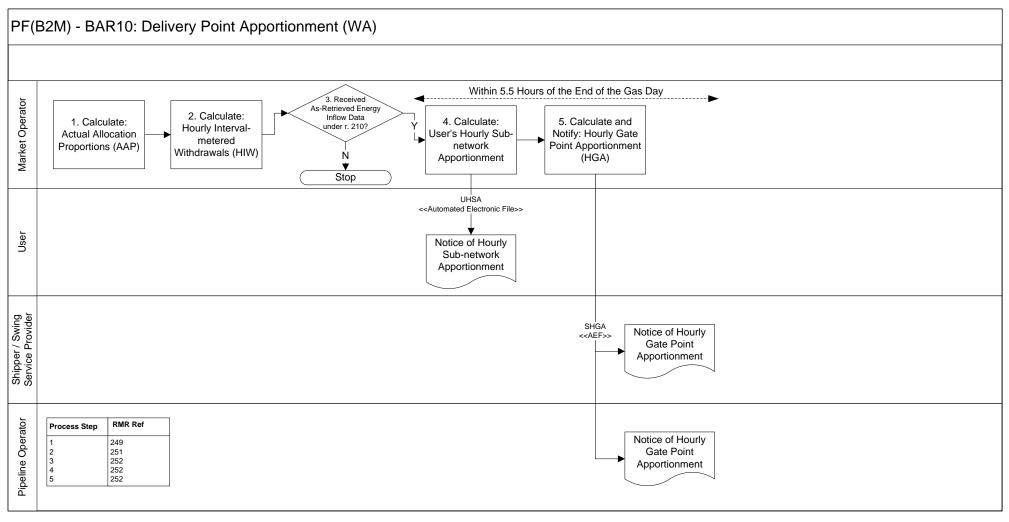
Project	Daga 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Deemed Injections		Pending	Pending

#### PF(B2M) – BAR9.2: Deemed Injections (SA)



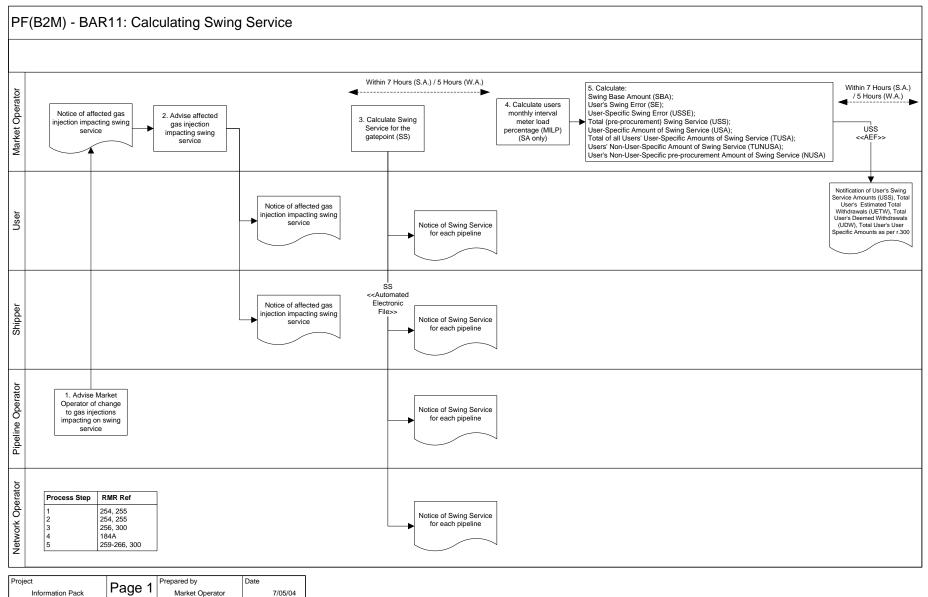
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Deemed Injections		Pending	Pending

PF(B2M) - BAR10: Delivery Point Apportionment (WA)



Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Delivery Point Apportionment (WA)		Pending	Pending

#### PF(B2M) - BAR11: Calculating Swing Service (WA)



Process

Calculating Swing Service

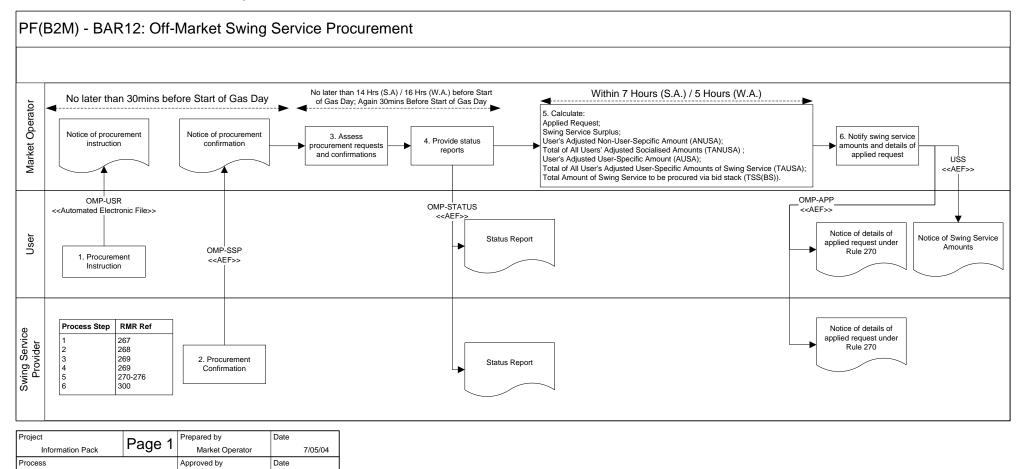
Approved by

Pending

Date

Pending

PF(B2M) - BAR12: Off-Market Swing Service Procurement (WA)

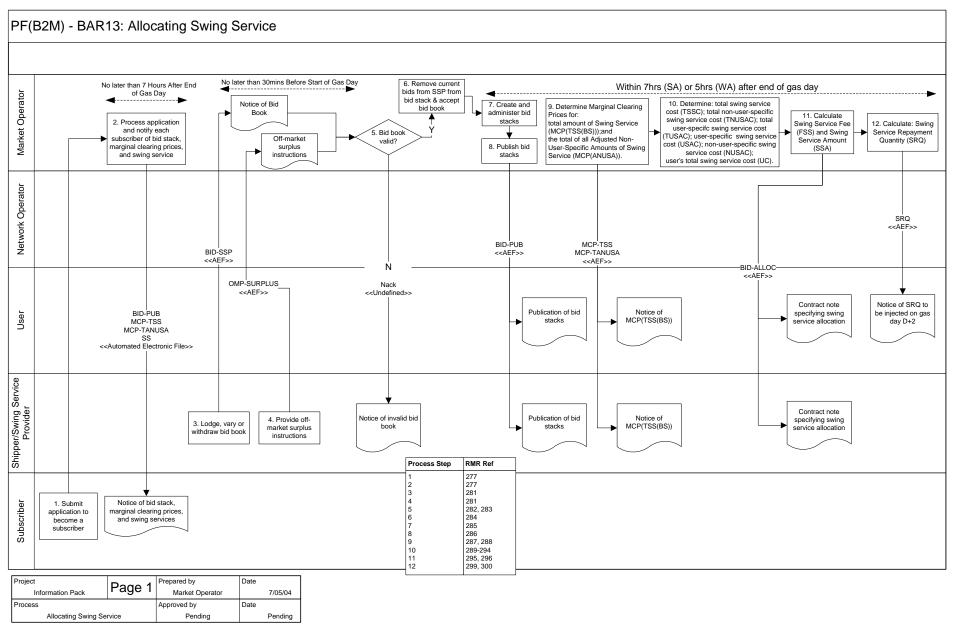


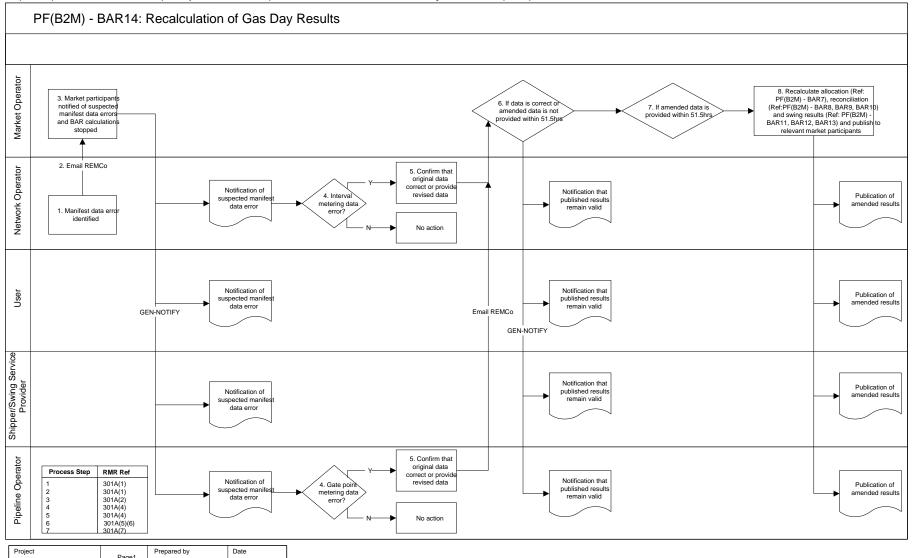
Pending

Pending

Off-Market Swing Service Procurement

#### PF(B2M) - BAR13: Allocating Swing Service (WA)



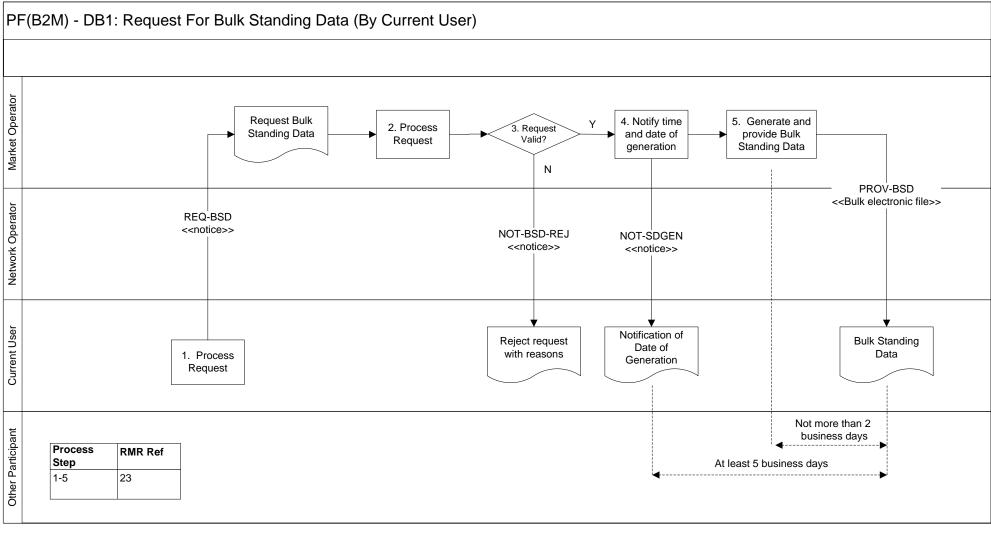


Project	5 (	Prepared by	Date	
Information Pack	Page1	Market Operator	:	3/11/05
Process		Approved by	Date	
Recalculation of Gas Day Results		Pending	F	Pending

# 5. Databases

# Databases

# PF(B2M) - DB1: Request for Bulk Standing Data (By Current User)

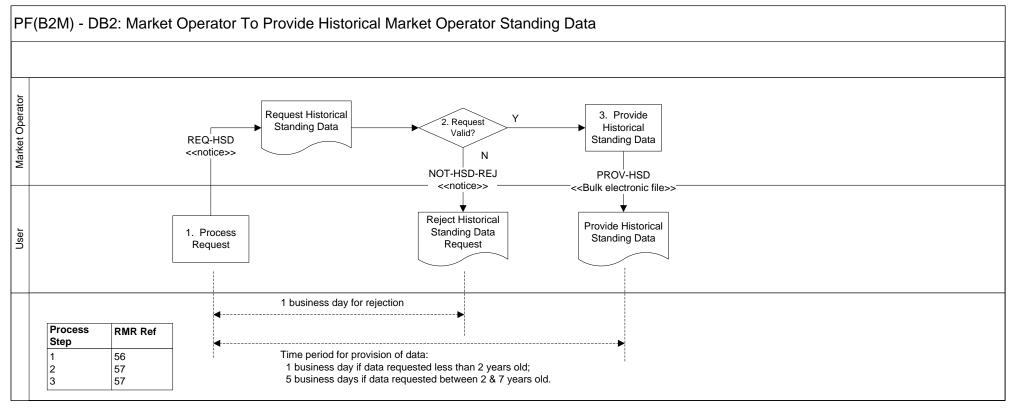


Project	Daga 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Request for Bulk Standing Data		Pending	Pending

#### Notes:

(1) This process applies for any participant (i.e. network operator, user) who requests standing data

# PF(B2M) - DB2: AEMO To Provide Historical Standing Data

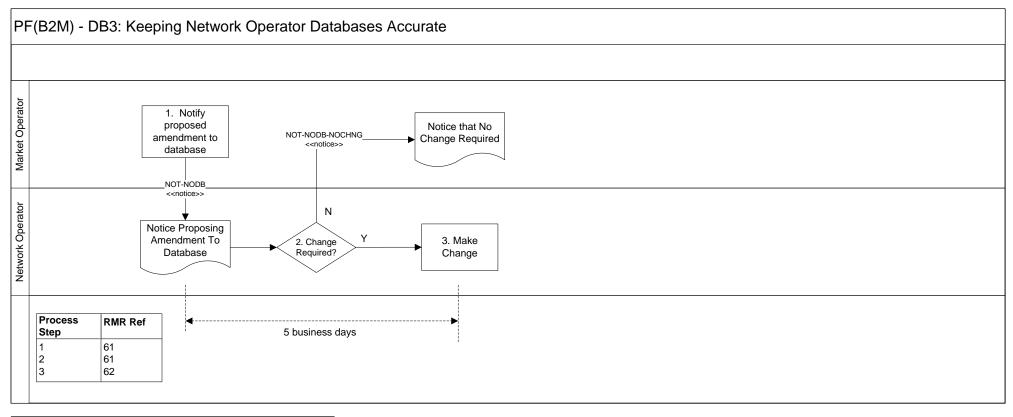


Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Market Operator To Provide Historical Market Operator Standing Data		Pending	Pending

#### Notes:

(1) This process applies for any participant (i.e. network operator, user) who requests standing data

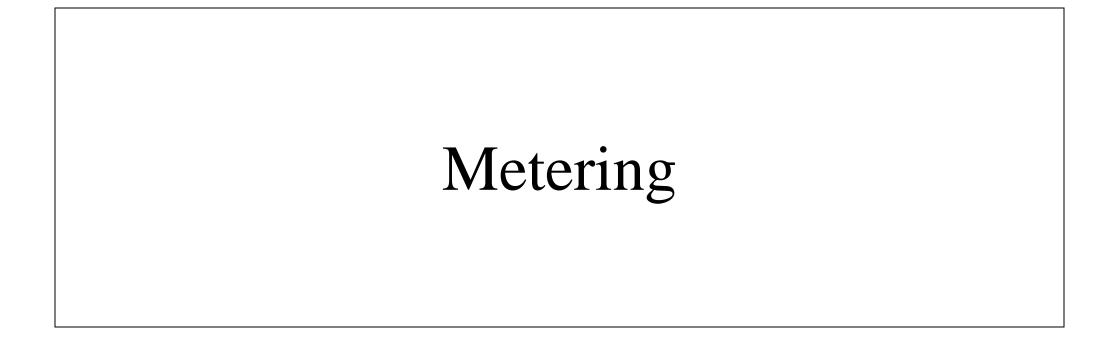
# PF(B2M) - DB3: Keeping Network Operator Databases Accurate



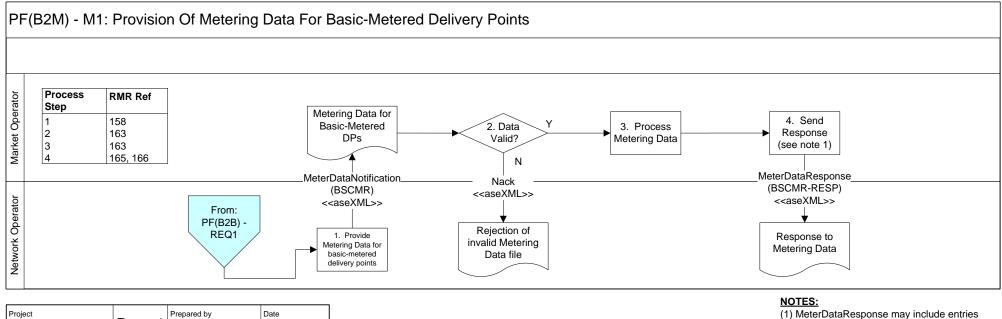
Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Keeping Network Operator Databases Accurate		Pending	Pending

Notes: (1) Refer to PF(B2B) - DB1

# 6. Metering



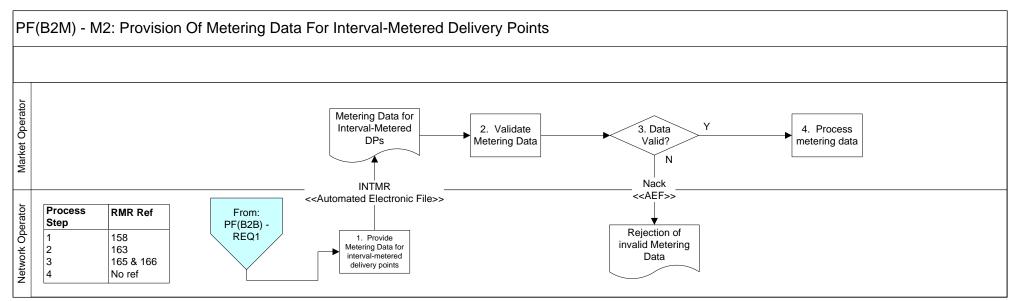
## PF(B2M) - M1: Provision of Metering Data for Basic-Metered Delivery Points



Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Provision of Metering Data Metered Delivery Po		Pending	Pending

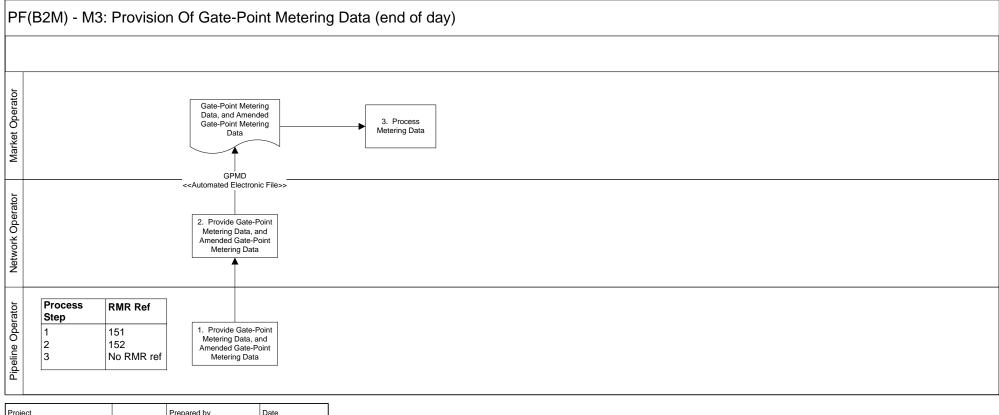
for invalid meter readings.

# PF(B2M) - M2: Provision of Metering Data for Interval-Metered Delivery Points



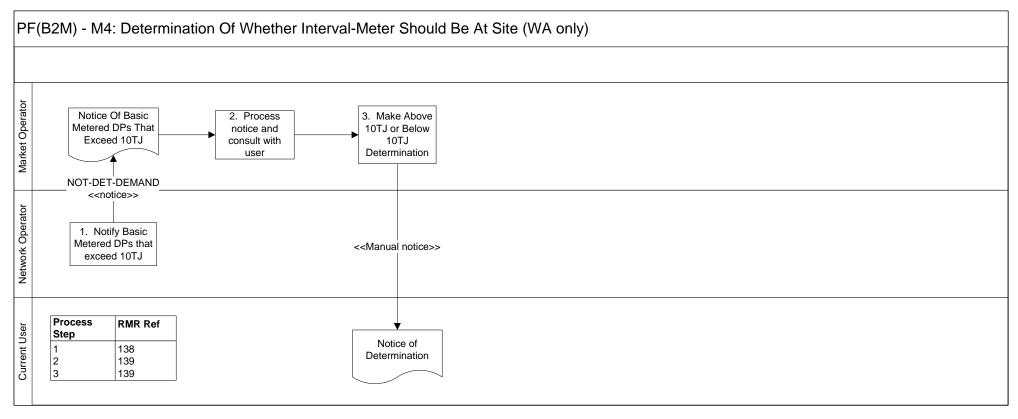
Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Provision of Metering Data for Interval- Metered Delivery Points		Pending	Pending

# PF(B2M) - M3: Provision Of Gate-Point Metering Data



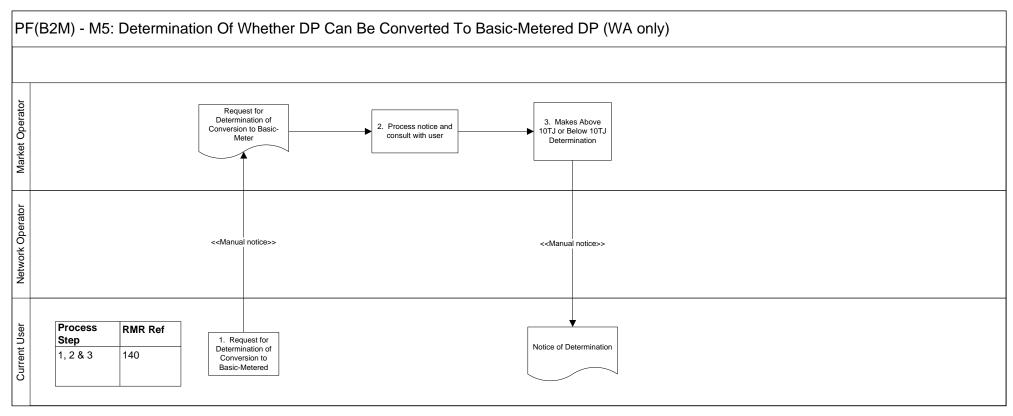
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Provision of Gate-Point Metering Data		Pending	Pending

## PF(B2M) - M4: Determination of Whether Interval-Meter Should be at Site



Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Determination of whether interval-meter should be at site		Pending	Pending

# PF(B2M) - M5: Determination of Whether Delivery Point can be Converted to Basic-Metered Delivery Point

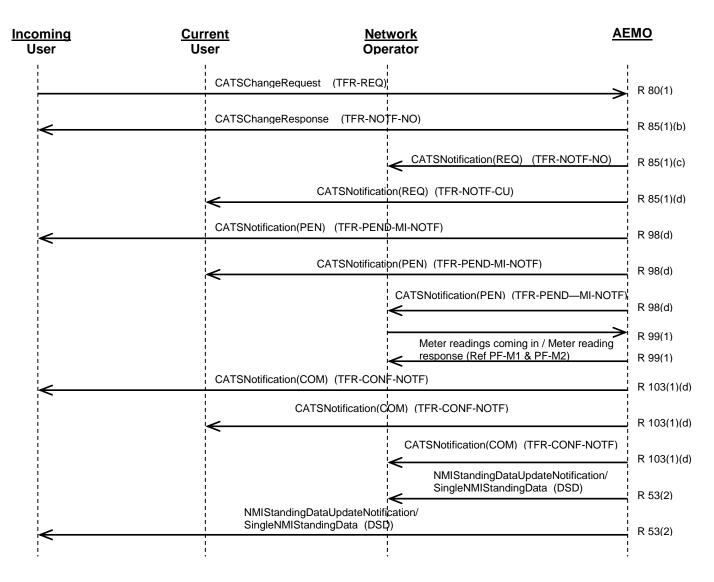


Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Determination of whether delivery point can be converted to basic-metered delivery point		Pending	Pending

7. Appendix A Sequence Diagrams

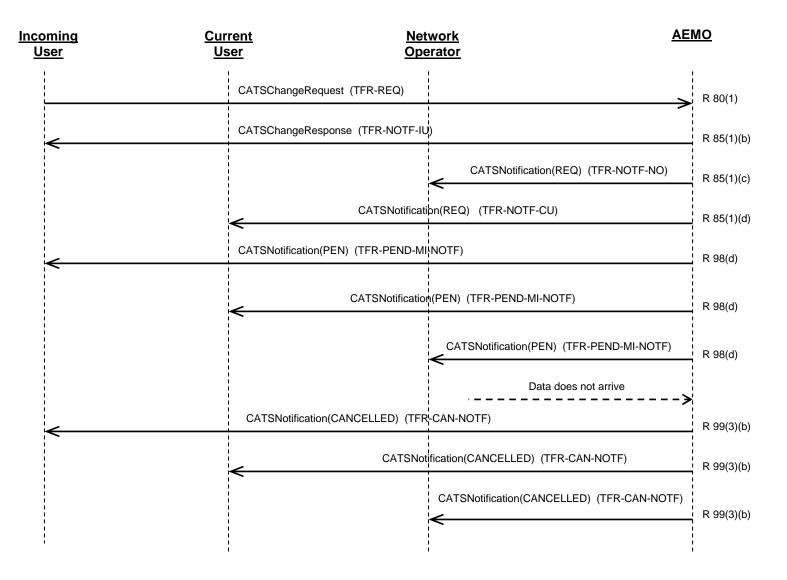
SD(B2M) - R1: Transfer (Move-In) Clean End To End

# Transfer (Move In) Clean end to end (RMP 80)

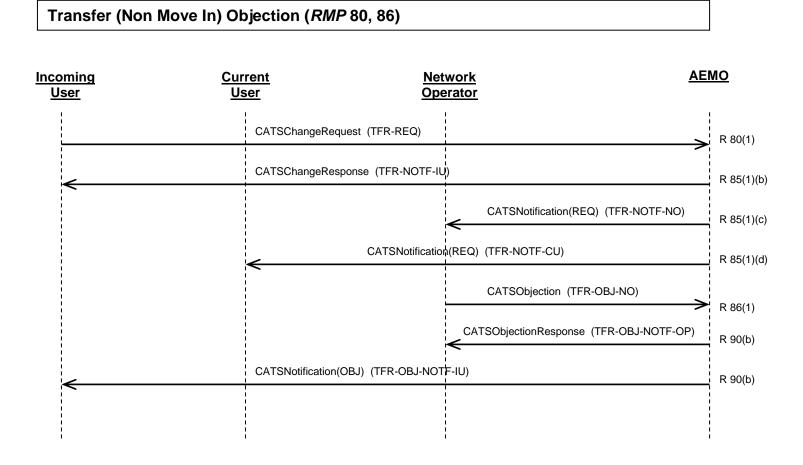


SD(B2M) - R2: Transfer Cancel (No Read / Timeout)

# Transfer Cancel (No read/Timeout) (RMP 80, 99(3)(b))



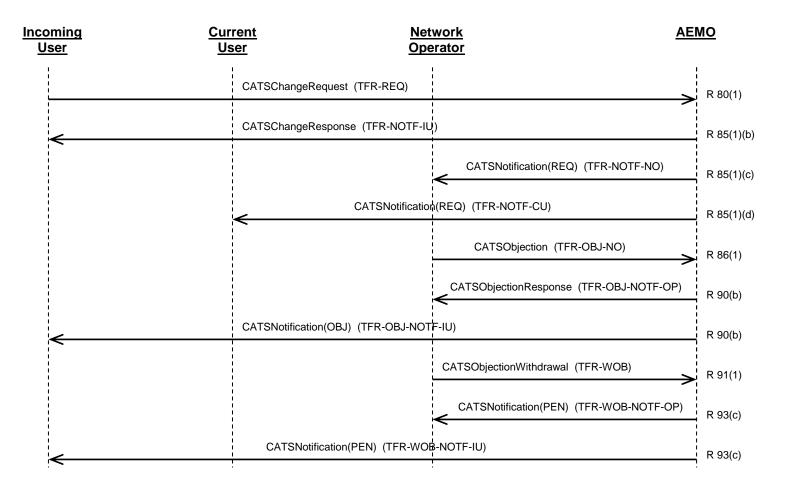
SD(B2M) - R3: Transfer (Non-Move-In) Objection



NOTE: TFR-OBJ-NOTF-IU will also contain objection data

SD(B2M) - R4: Transfer (Non-Move-In) Objection Withdrawal

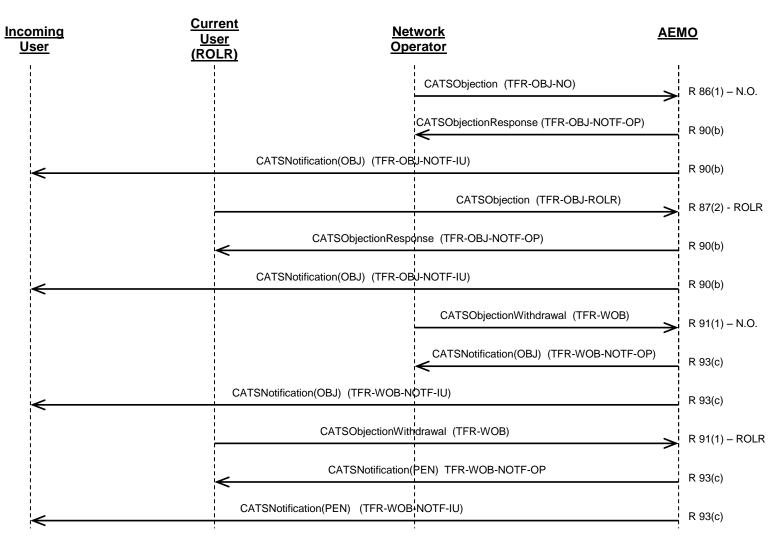
# Transfer (Non Move In) Objection Withdrawal (*RMP* 80, 86, 91)



NOTE: TFR-OBJ-NOTF-IU will also contain objection data

### SD(B2M) - R5: Transfer (Non-Move-In) Objection Multiple Withdrawals

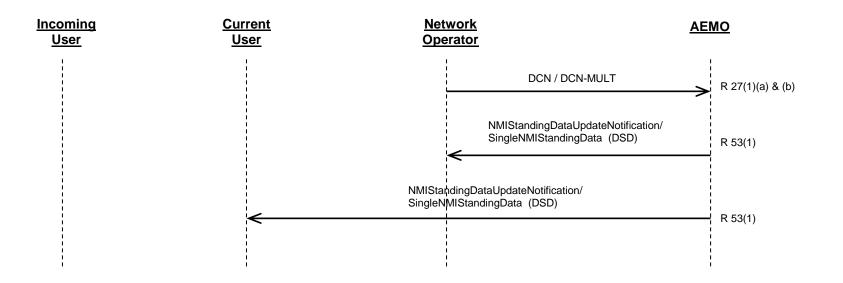
# Transfer (Non Move In) Objection Multiple Withdrawals (RMP 86, 87 (ROLR), 91)



NOTE: TFR-OBJ-NOTF-IU will also contain objection data

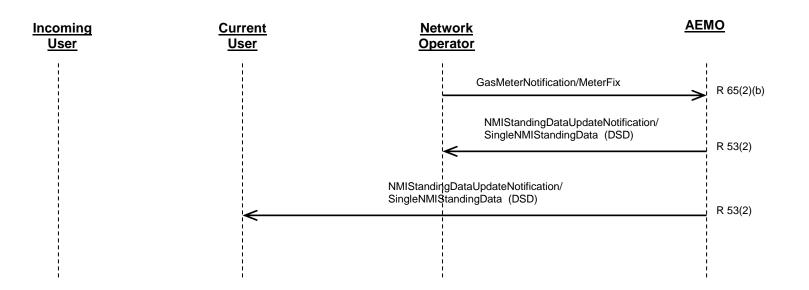
SD(B2M) - R6: Change of Standing Data (Single/Bulk)

# Change of Standing Data (Single/Bulk) (RMP 27)



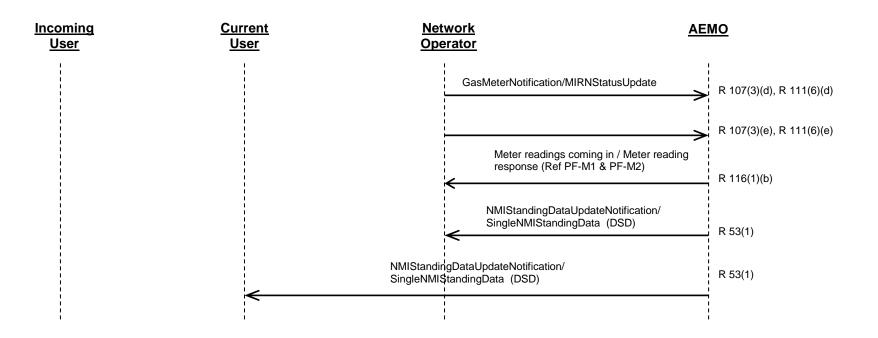
SD(B2M) - R7: New Connection

# New Connection (RMP 65(2)(b))



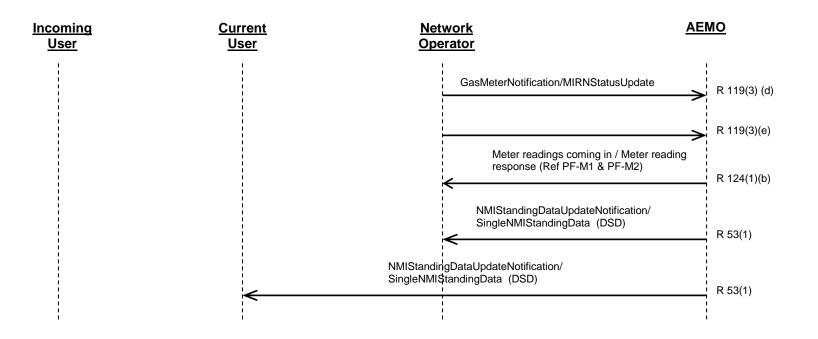
SD(B2M) - R8: Disconnection (Clean)



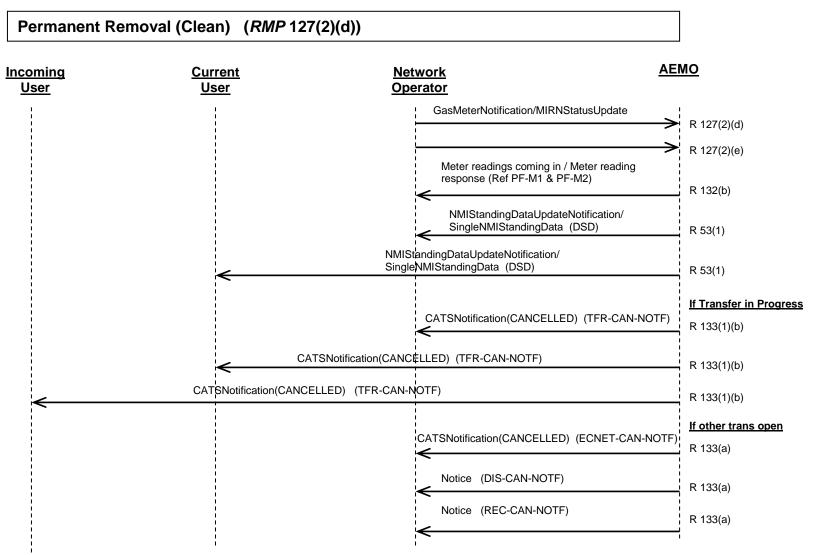


SD(B2M) - R9: Reconnection (Clean)

# Reconnection (Clean) (RMP 119(3)(c))

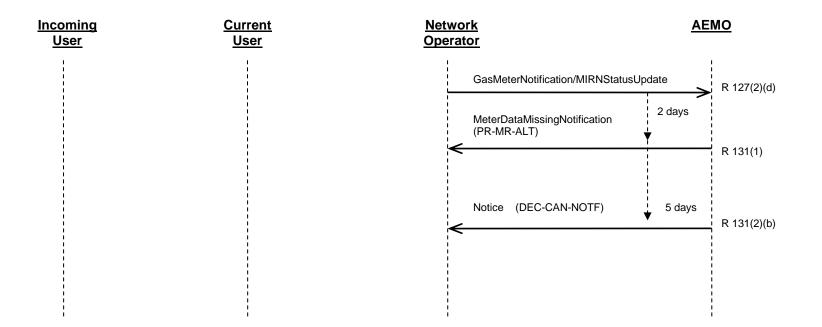


#### SD(B2M) - R10: Permanent Removal (Clean)



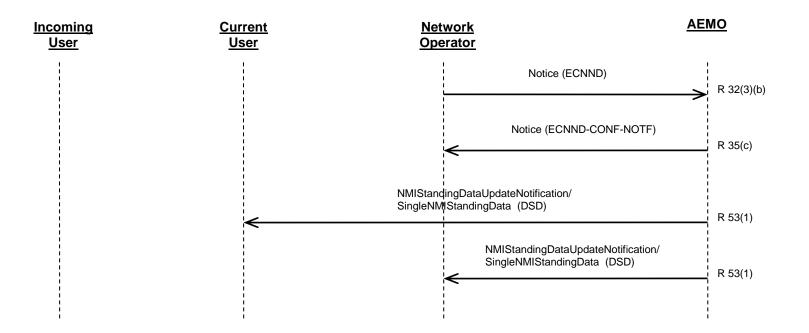
SD(B2M) - R11: Permanent Removal (Fail To Get Read)

# Permanent Removal (Fail to get read) (RMP 127(2)(d) & 131(1))



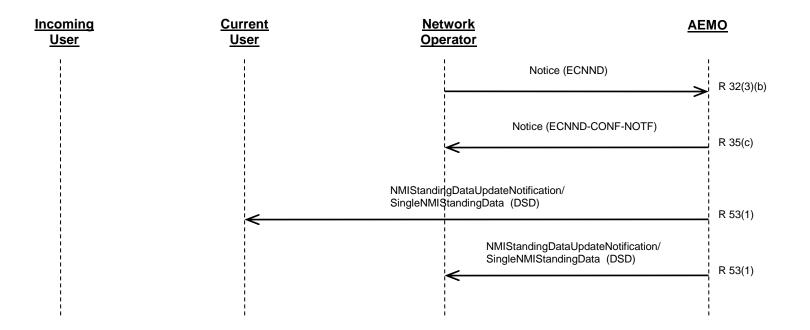
SD(B2M) - R12: Error Correction For Permanent Removal

# Error Correction for Permanent Removal (*RMP* 32, 35 & 53)



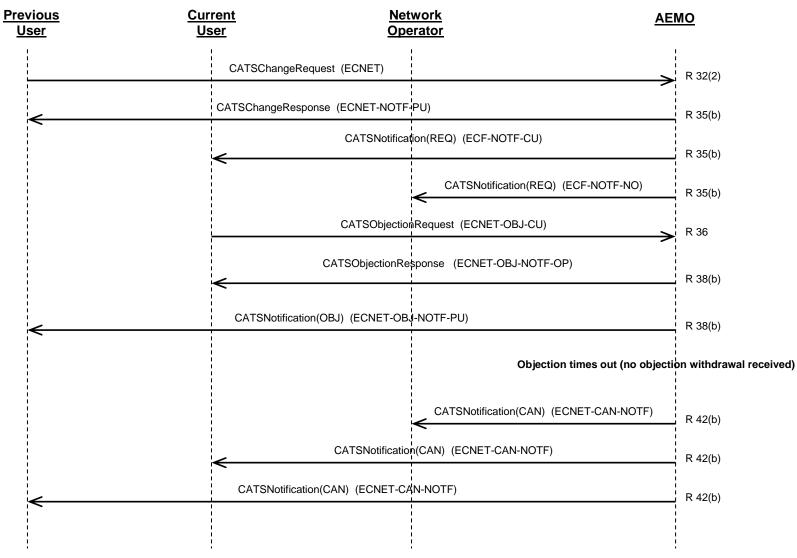
SD(B2M) - R13: Error Correction For New Connection

# **Error Correction for New Connection**



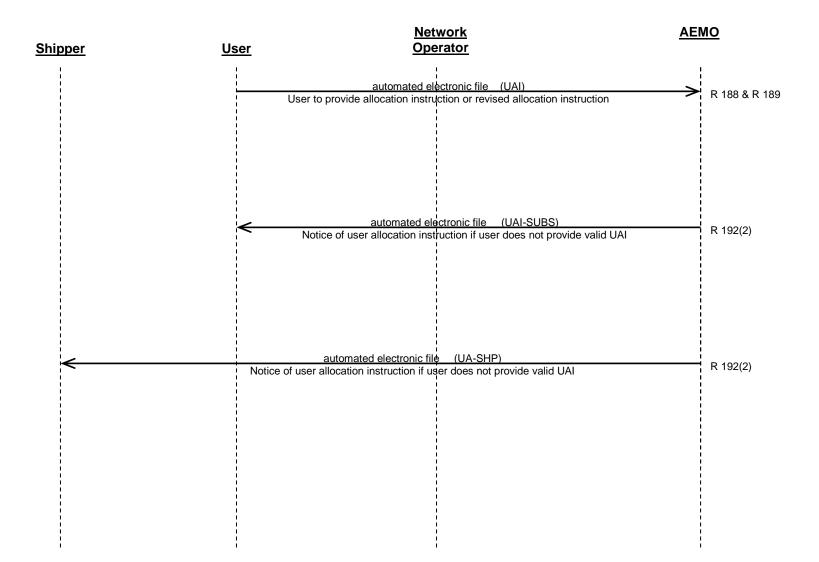
SD(B2M) - R14: Error Correction Of Transfer With Objection Received From Network Operator

# Error Correction of transfer (initiated by Previous User) with Objection Received from Current User (with objection timeout)



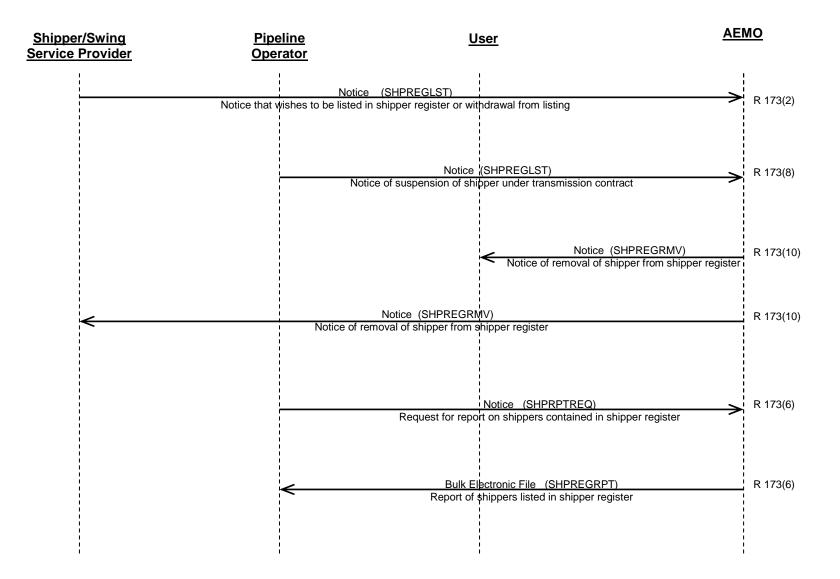
SD(B2M) - BAR2: Allocation Instructions

# Allocation Instructions (*RMP* 184 & 188)

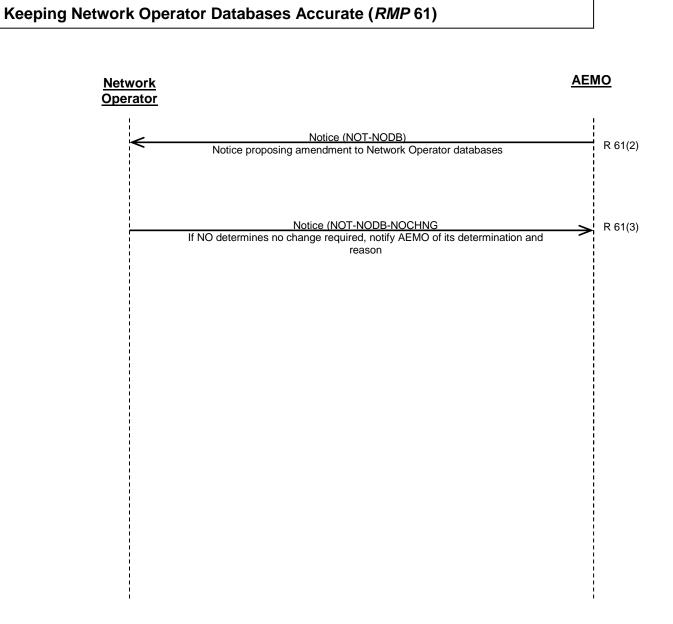


SD(B2M) - BAR3: Shipper Register

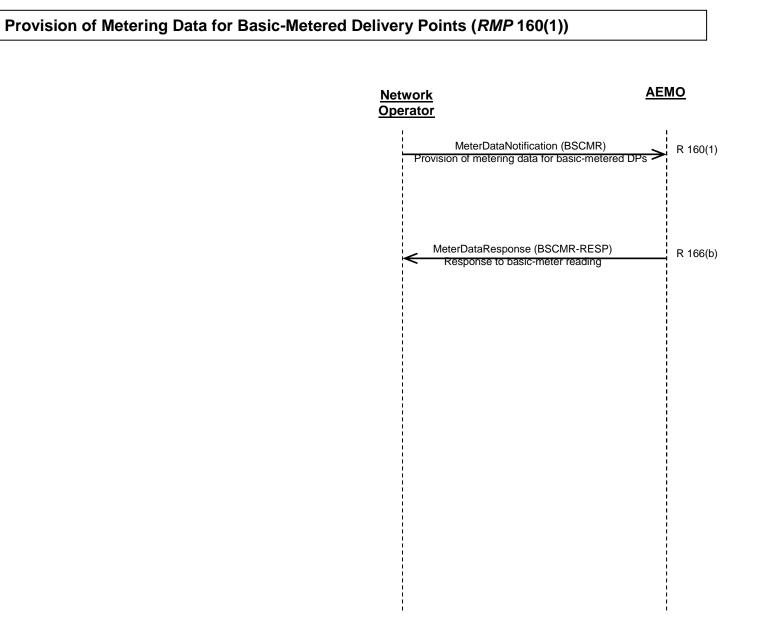
# Shipper Register (RMP 173)



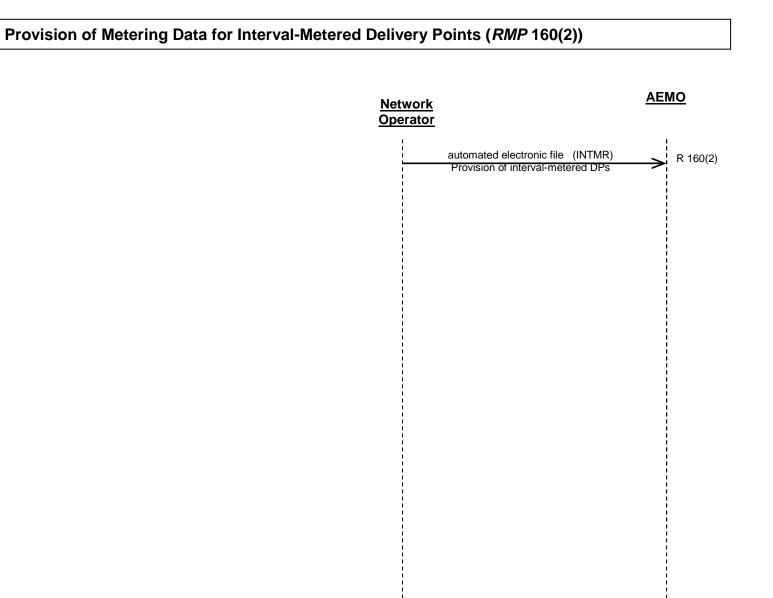
SD(B2M) - DB1: Keeping Network Operator Databases Accurate



SD(B2M) - DB2: Provision Of Metering Data For Basic-Metered Delivery Points

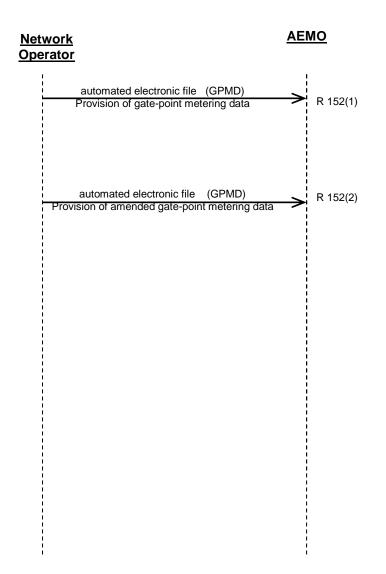


SD(B2M) - DB3: Provision Of Metering Data For Interval-Metered Delivery Points

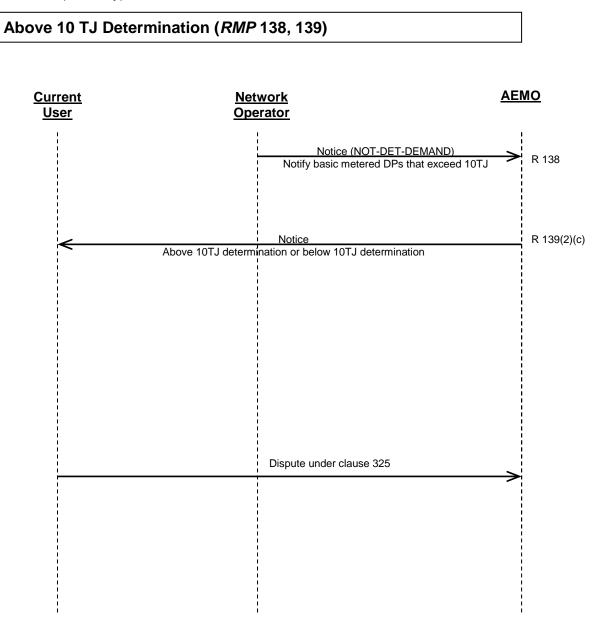


SD(B2M) - DB4: Provision Of Gate-Point Metering Data

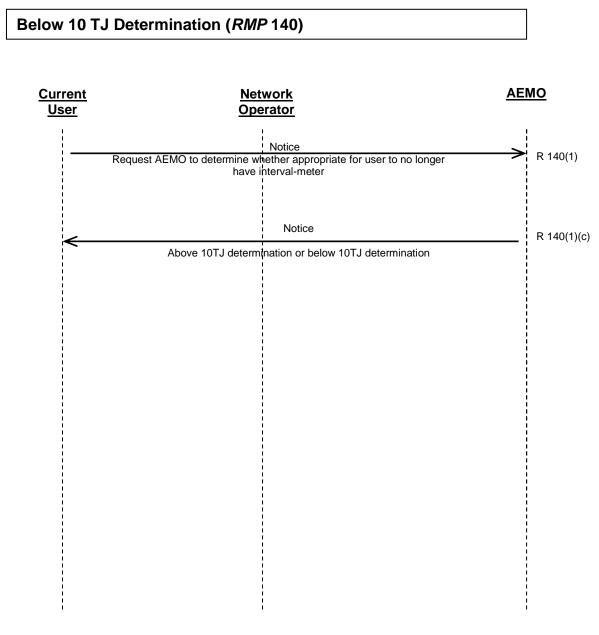
Provision of Gate-Point Metering Data (*RMP* 152)



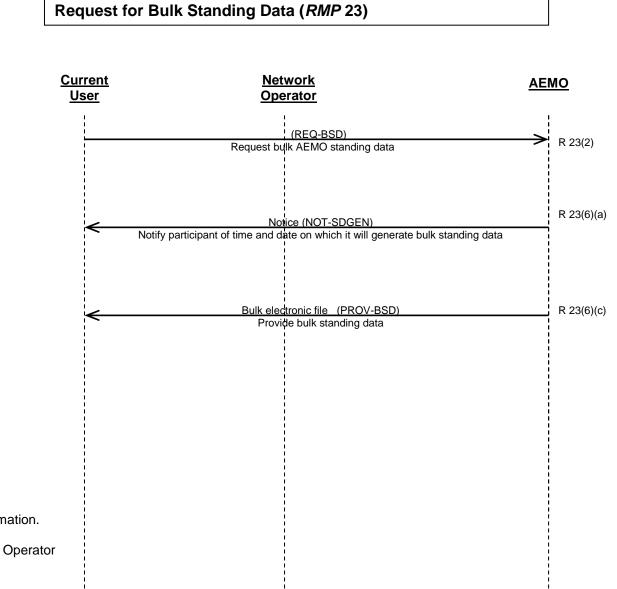
SD(B2M) - DB5: Above 10 TJ Determination (WA only)



SD(B2M) - DB6: Below 10 TJ Determination (WA only)



SD(B2M) – DB7: Request For Bulk Standing Data

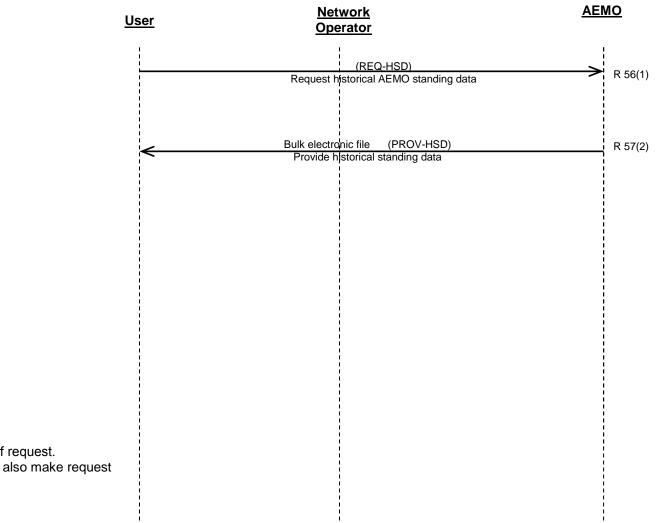


#### Notes:

Shows participant requested information.
AEMO also provides quarterly.
Same process followed if Network Operator requests bulk information.

#### SD(B2M) – DB8: Request For Historical Standing Data (Clean)

# Request for Historical Standing Data (Clean) (RMP 56, 57) (1)



#### Notes:

(1)"Clean" = no rejection of request.
(2) Network Operator may also make request of this type.