

FRC B2M PROCESS FLOWS SEQUENCE DIAGRAMS

FOR THE SA AND WA GAS RETAIL MARKETS

VERSION:

3.7

EFFECTIVE DATE:

10 February 2020



VERSION RELEASE HISTORY

Version	Date	Author(s)	Changes and comments
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	 Updated to incorporate: Amendments included in 24 October 2003 version of RMR; Amendments included in BS C1.5 and ICD V1.5 Internal review; Participant feedback on version 1.0. Added process flows for Balancing, Allocation and Reconciliation (BAR)
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	 Updated to incorporate: Comments received at the Quality Workshop (held 4&5 December 2003); Participant feedback on version 2.01 Amendments included in version 3.0 of the RMR; and Internal review.
3.0	7/5/04	Z Gemmell	 Updated to incorporate: Amendments included in version 4.0C of the RMR; and Amendments included in version 3.0 of the Interface Control Document
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 RMR 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
3.6	8 August 2019	N Datar	Updated for IN012/17 Update to Deregistered MIRN Status Created new diagram PF(B2M) – R6.1 for South Australia from existing PF(B2M) – R6 which is now for Western Australia only. SD(B2M) – R11 is now for Western Australia only
3.7	10 February 2020	N Datar	Updated for IN006/17 SA RMP Harmonisation





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1. 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 in the table below (the latest versions are available on the AEMO website):

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

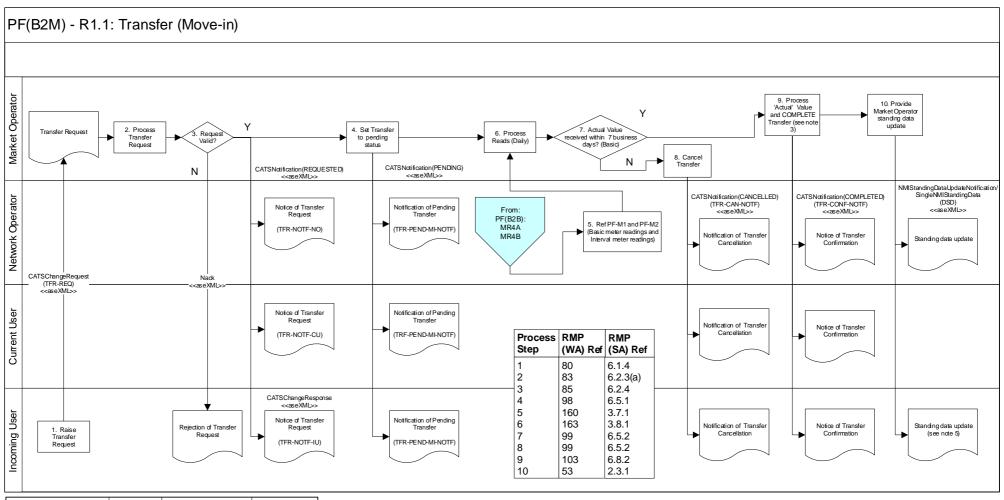


2. AEMO REGISTRY

AEMO Registry



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



Project Information Pack Page 1 Prepared by Market Operator Date 7/05/04 Process Approved by Transfer (Move In) Date 9/05/04 Pending Pending

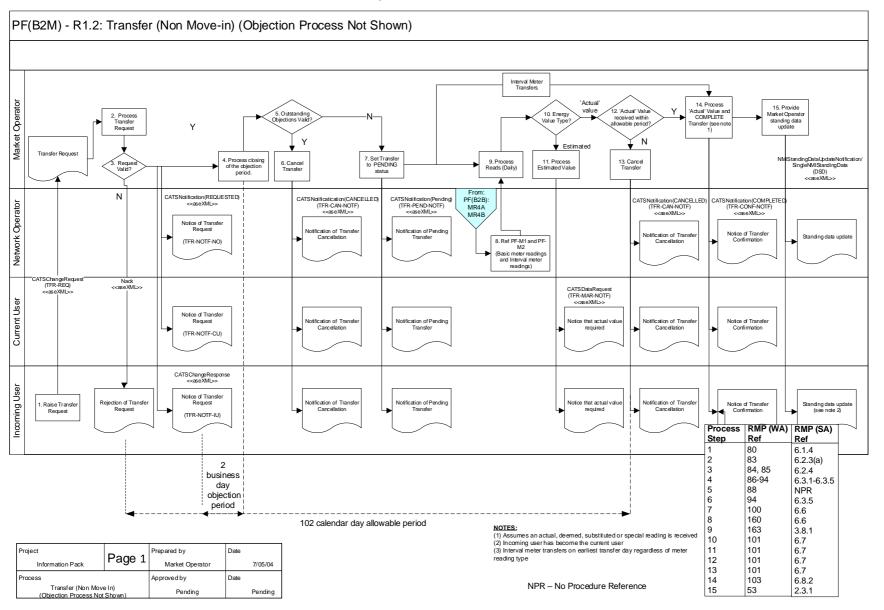
NOTES:

- (1) Assumes no transfer with drawal.
- (2) Assumes meter reading received is valid (i.e. does not show meter read validation process)
- (3) Assumes an actual, deemed, substituted or special reading is received
- (4) Assumes Network Operator does not send a NACK on CATS Notification
- (5) Incoming user has become the current user

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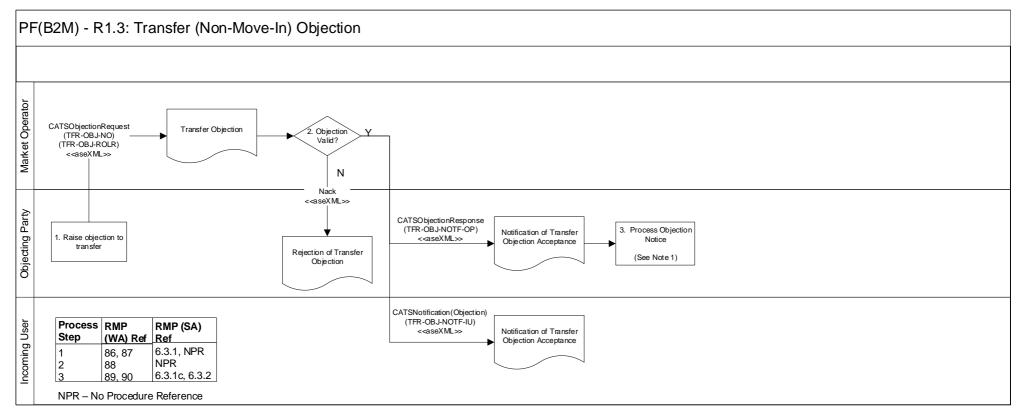


2.2. PF(B2M) - R1.2: Transfer (Non Move-in) (Objection Process Not Shown)





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



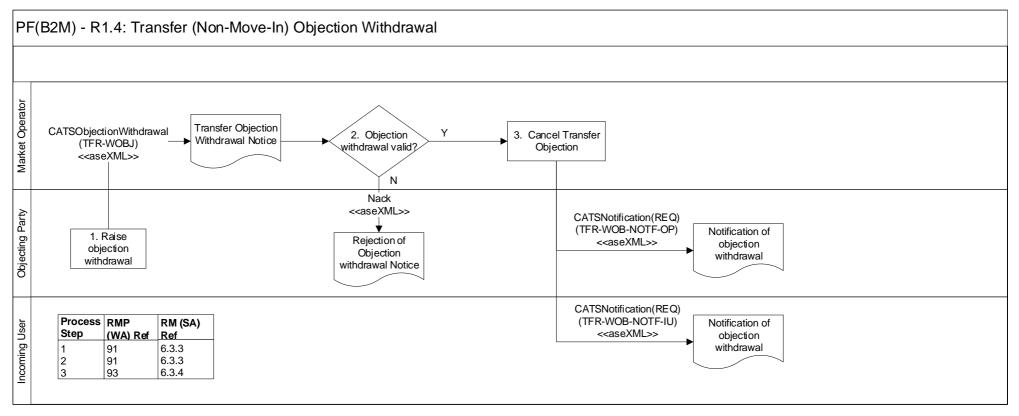
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Transfer (Non-Move-In)	Objection	Pending	Pending

NOTES:

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



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



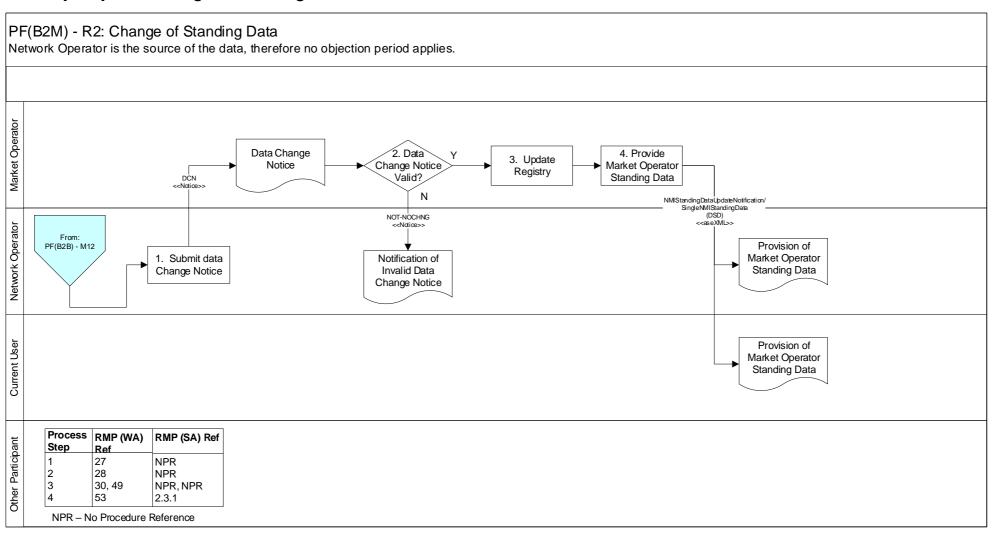
Project	Page 1	Prepared by	Date
Information Pack		Market Operator	7/05/04
Process		Approved by	Date
Transfer (Non-Move-In) Objection Withdrawal		Pending	Pending

NOTES:

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



2.5. PF(B2M) - R2: Change of Standing Data



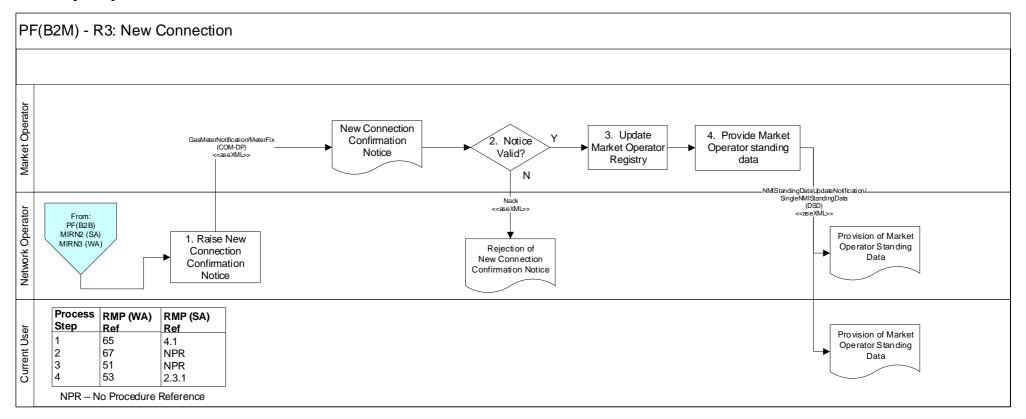
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Change of Standing Data (Initiated by		Pending	Pending

NOTES:

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



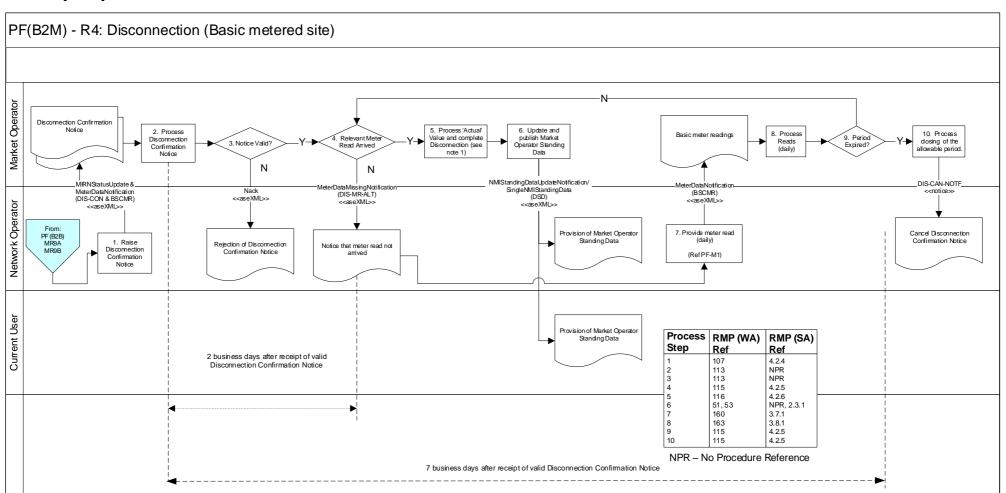
2.6. PF(B2M) - R3: New Connection



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



2.7. PF(B2M) - R4: Disconnection

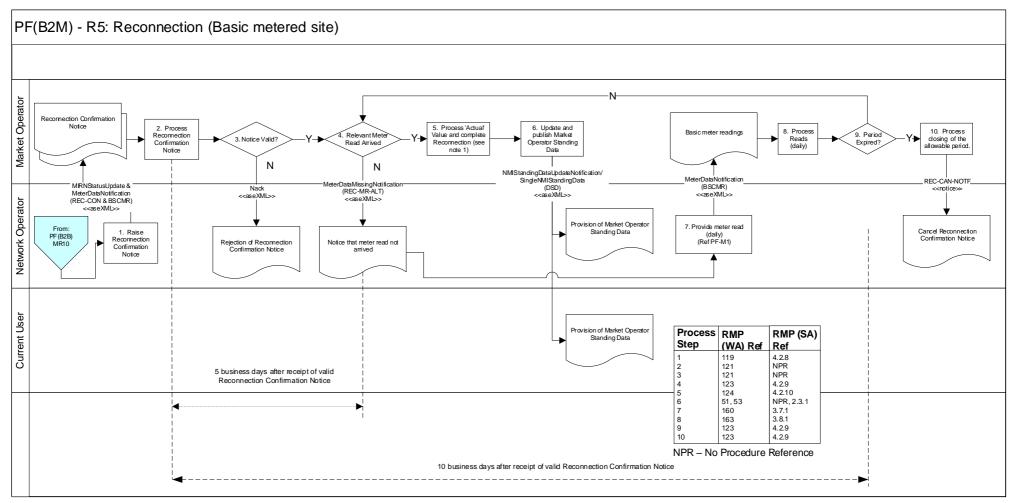


Project	Dogo	1	Prepared by	Date	
Information Pack	Page	1	Market Operator		7/05/04
Process			Approved by	Date	
Disconnection (Basic Metered Site)			Pending		Pending

- (1) Assumes an actual, estimated, or subtituted meter
- (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



2.8. PF(B2M) - R5: Reconnection

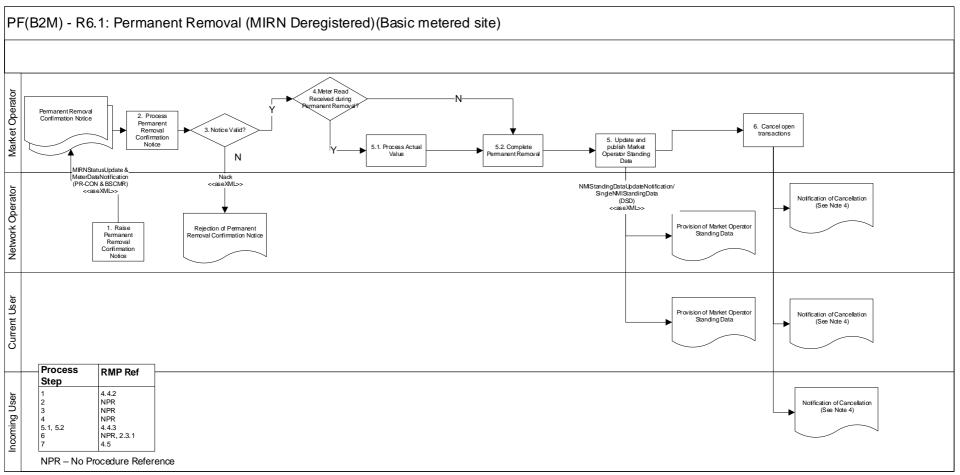


Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Reconnection (Basic Met	ered Site)	Pending	Pending

- (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. disconnection) are in progress.



2.9. PF(B2M) - R6.1: Permanent Removal (South Australia)

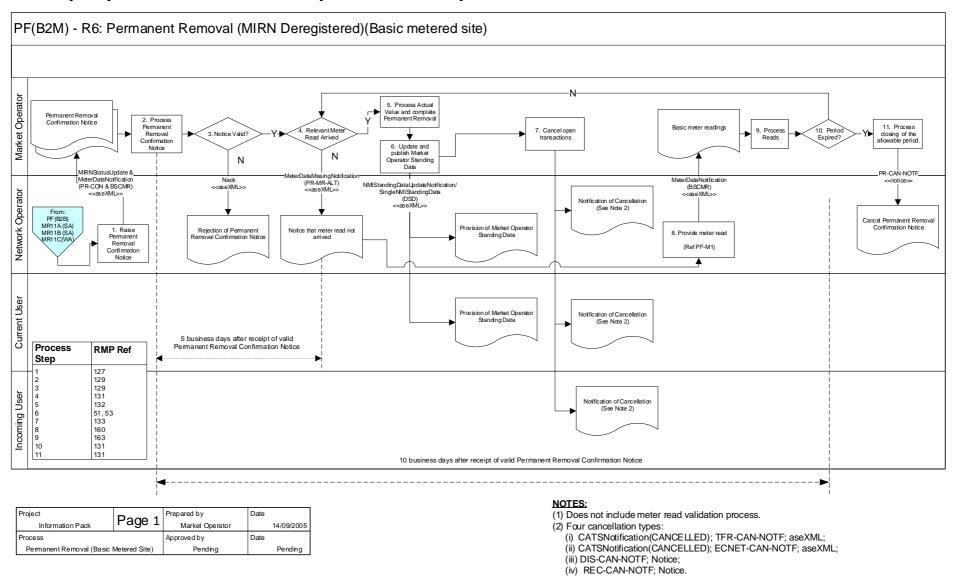


Project Information Pack	Page 1	Prepared by Market Operator	Date 14/09/2005
Process		Approved by	Date
Permanent Removal (Basic	Metered Site)	Pending	Pending

- (1) Does not include meter read validation process.
- (2) Network Operator's internal processes to ensure a final meter read is provided to AEMO and User if not already provided
- (3) Future AEMO system change to ensure deregistration only allowed after decommission
- (4) Cancellation types:
 - (i) CATSNotification(CANCELLED); TFR-CAN-NOTF; aseXML;
 - (ii) CATSNotification(CANCELLED); ECNET-CAN-NOTF; aseXML;

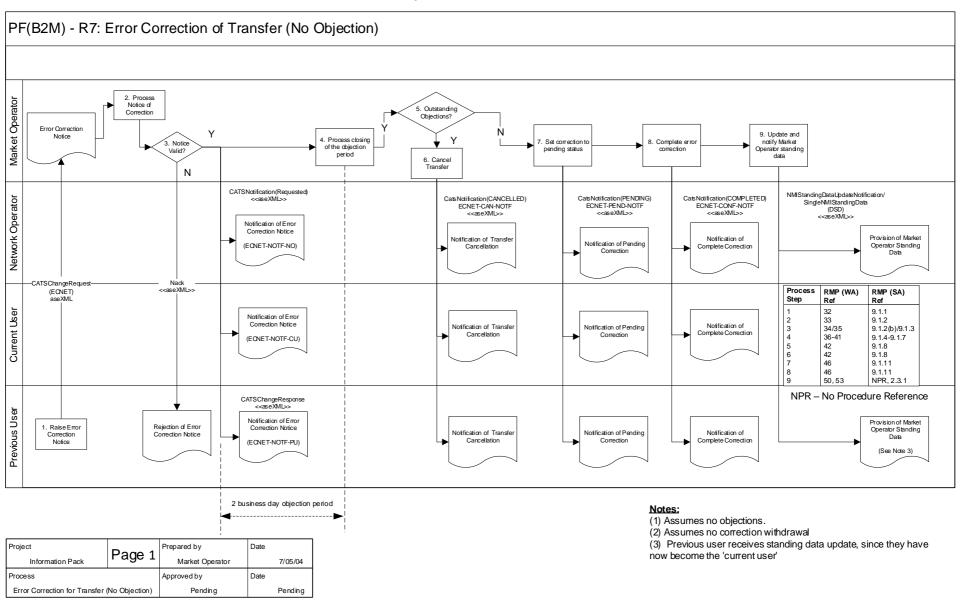


2.10. PF(B2M) - R6: Permanent Removal (Western Australia)



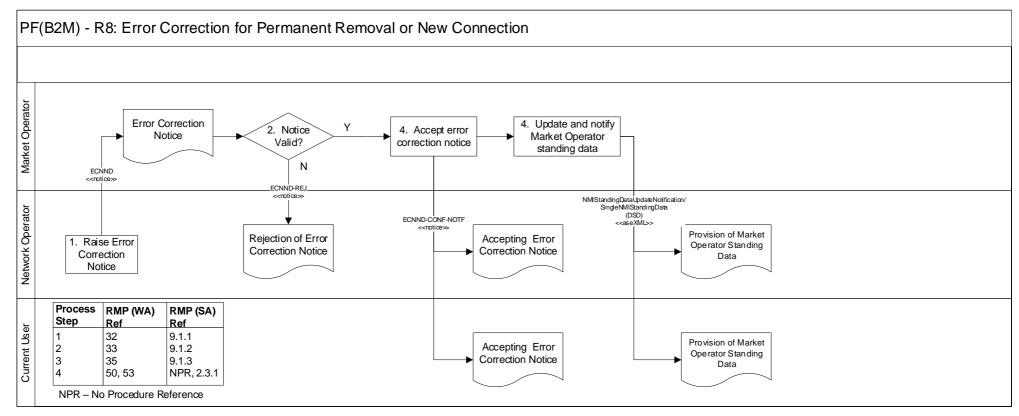


2.11. PF(B2M) - R7: Error Correction of Transfer (No Objection)





2.12. PF(B2M) - R8: Error Correction for Permanent Removal or New Connection



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

- (1) Initiated by Network Operator via GRMS Operations Staff.
- (2) Correction withdrawal process not shown.

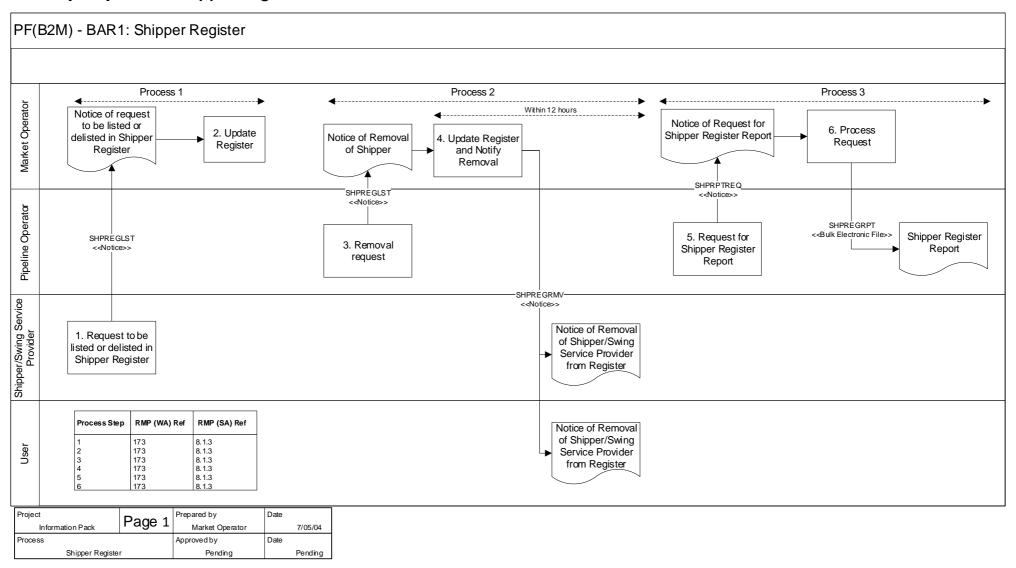


3. BALANCING AND RECONCILIATION (BAR)

Balancing And Reconciliation

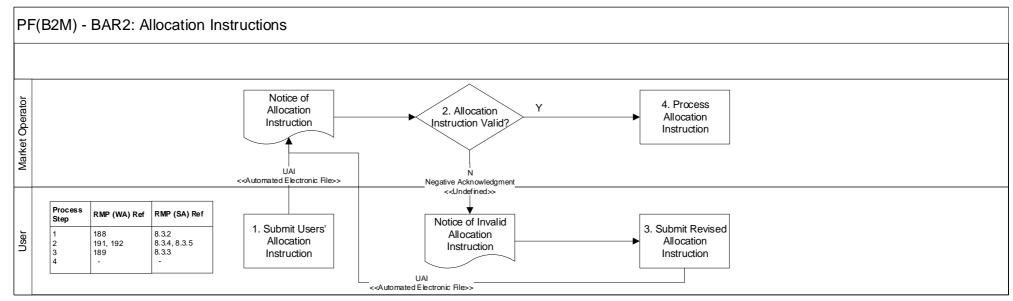


3.1. PF(B2M) - BAR1: Shipper Register





PF(B2M) - BAR2: Allocation Instructions

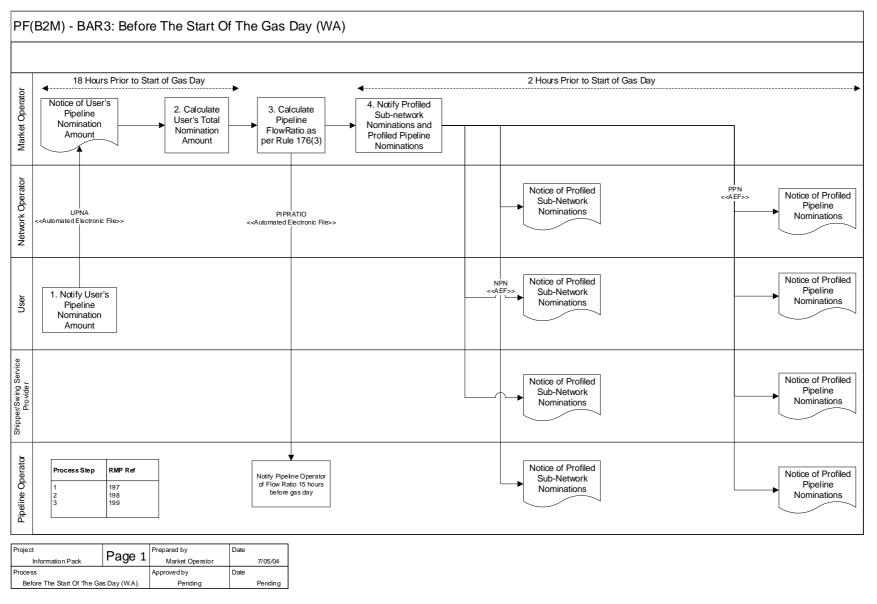


Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Allocation Instructions		Pending	Pending

- (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).

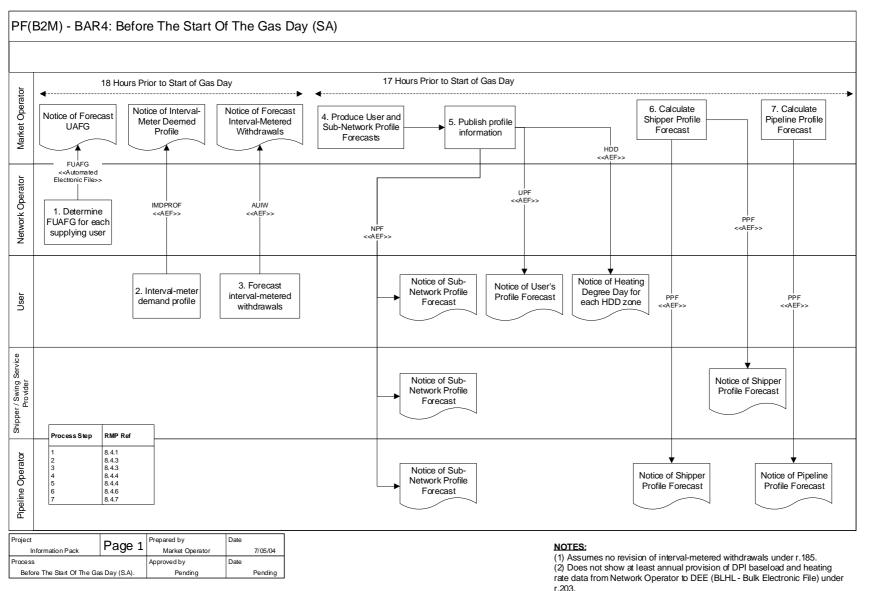


3.3. PF(B2M) – BAR3: Before The Start Of The Gas Day (Western Australia)



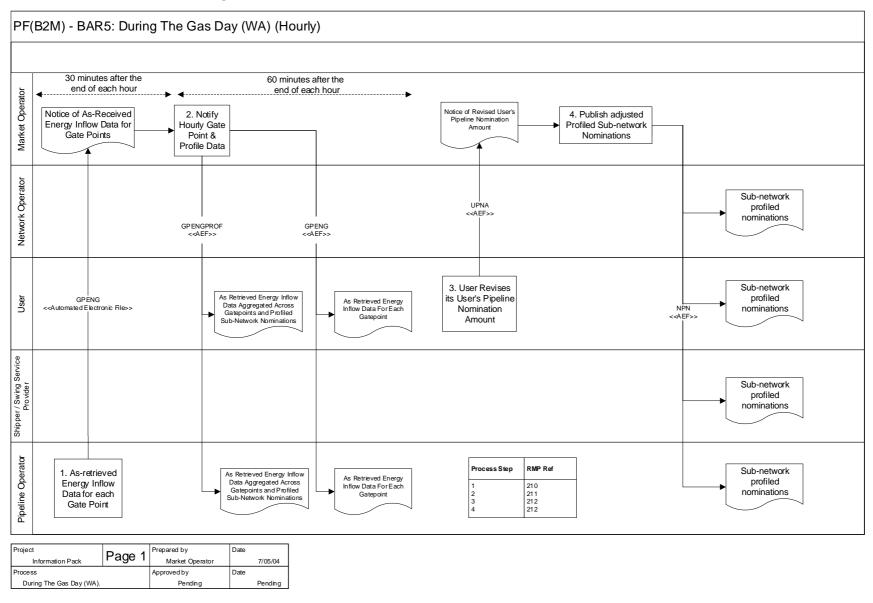


3.4. PF(B2M) – BAR4: Before The Start Of The Gas Day (South Australia)



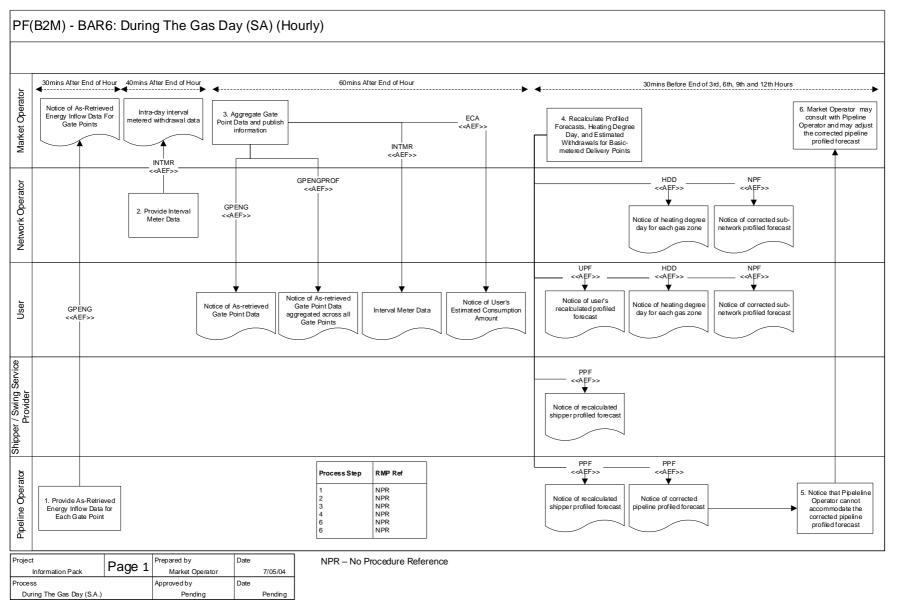


3.5. PF(B2M) – BAR5: During The Gas Day (Western Australia) (Hourly)



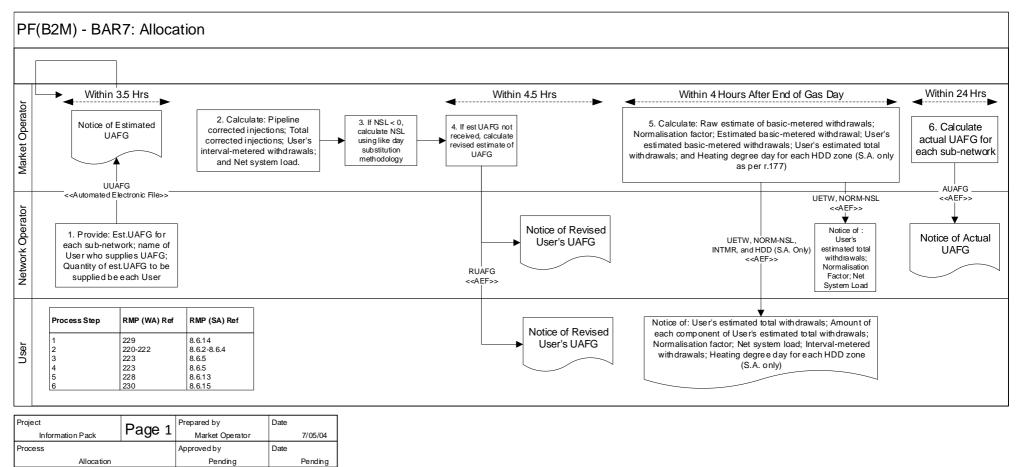


3.6. PF(B2M) – BAR6: During The Gas Day (South Australia) (Hourly)



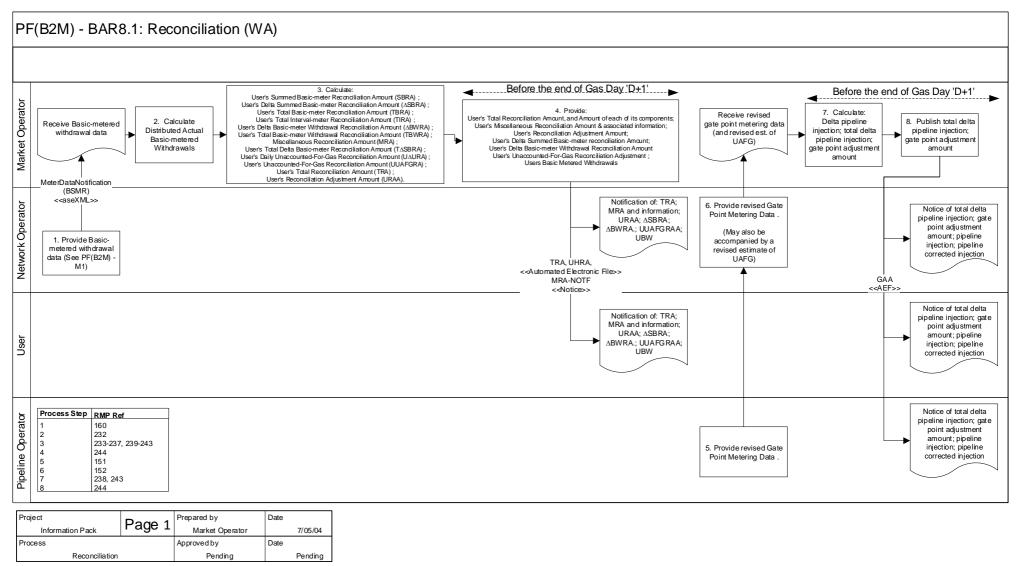


3.7. PF(B2M) - BAR7: Allocation



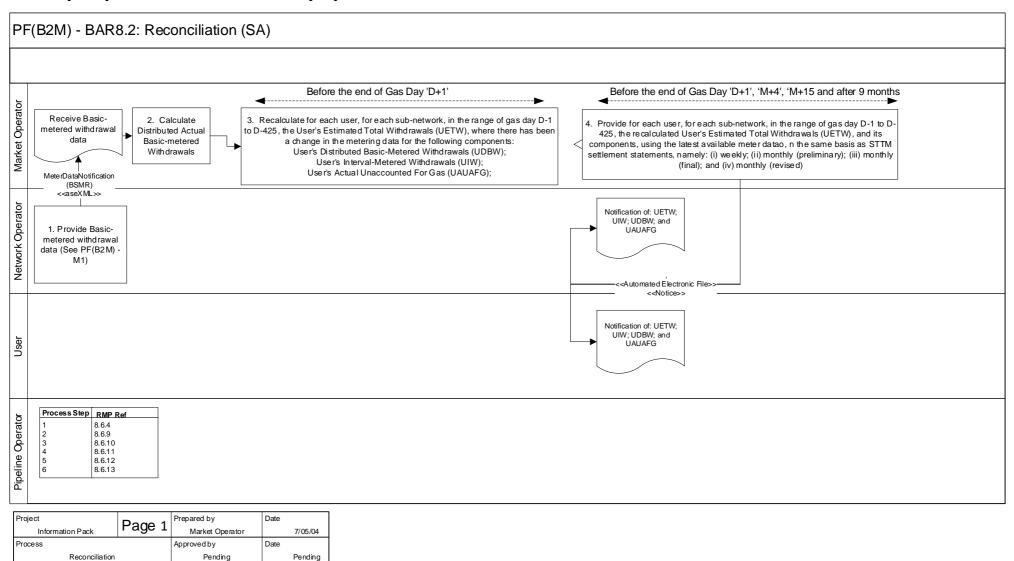


3.8. PF(B2M) - BAR8.1: Reconciliation (WA)



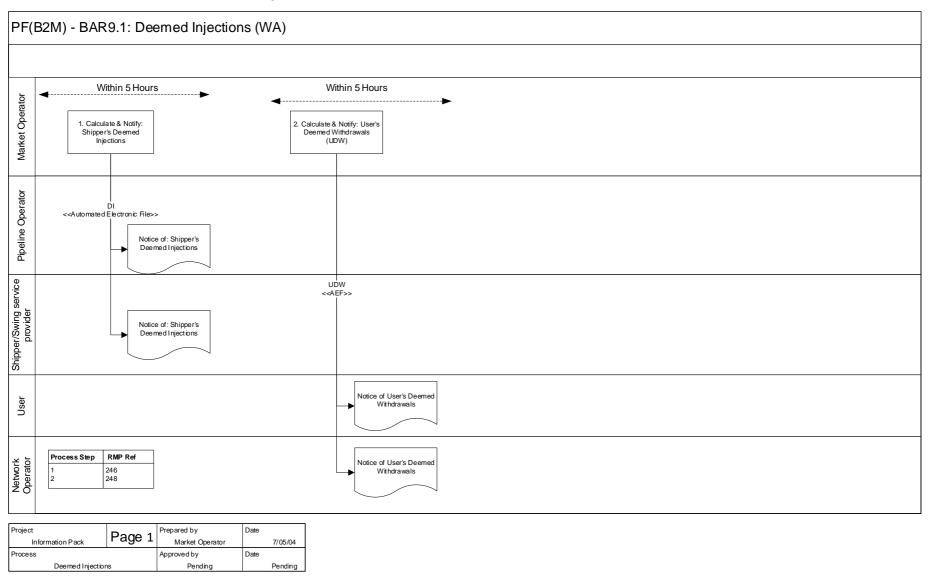


3.9. PF(B2M) - BAR8.2: Reconciliation (SA)



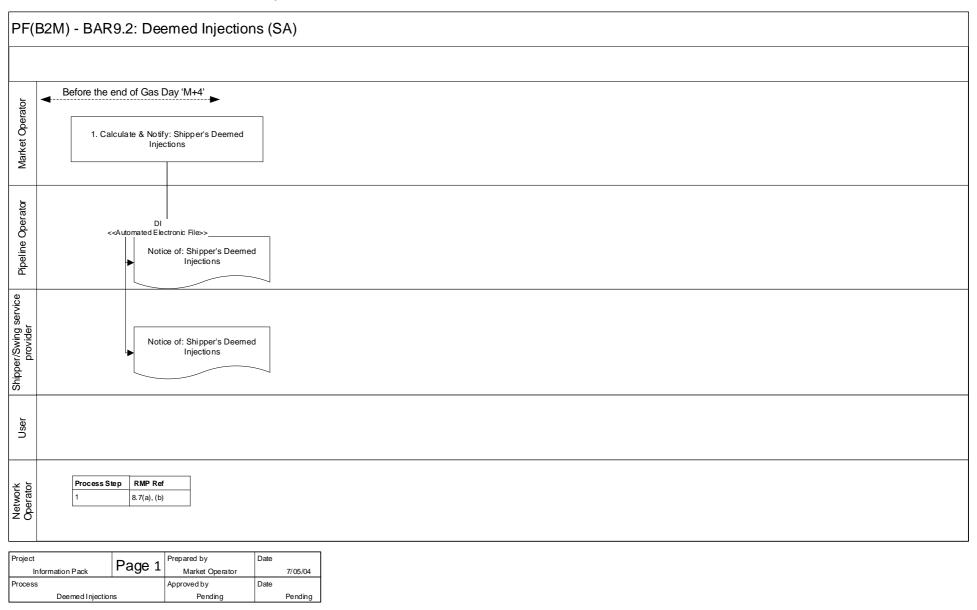


3.10. PF(B2M) - BAR9.1: Deemed Injections (WA)



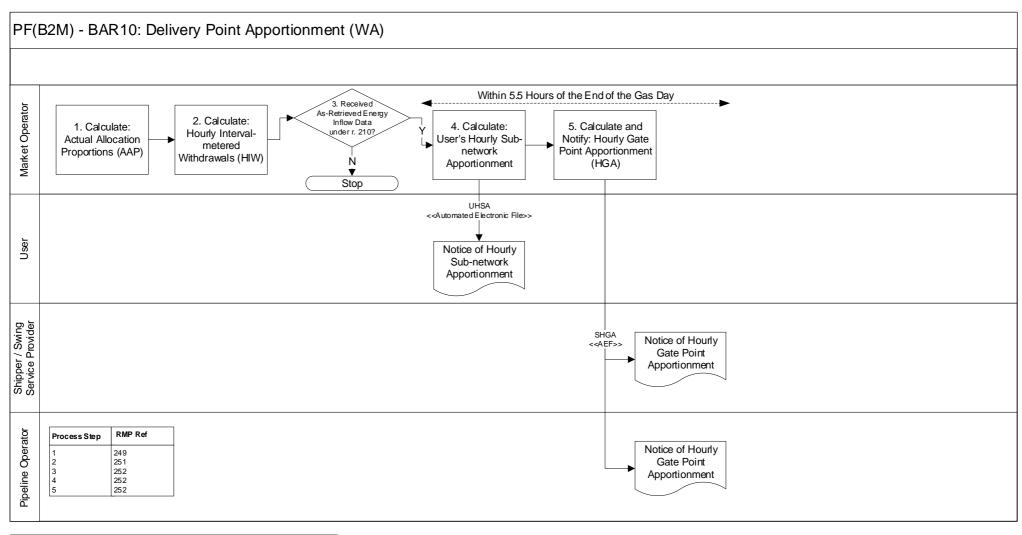


3.11. PF(B2M) - BAR9.2: Deemed Injections (SA)





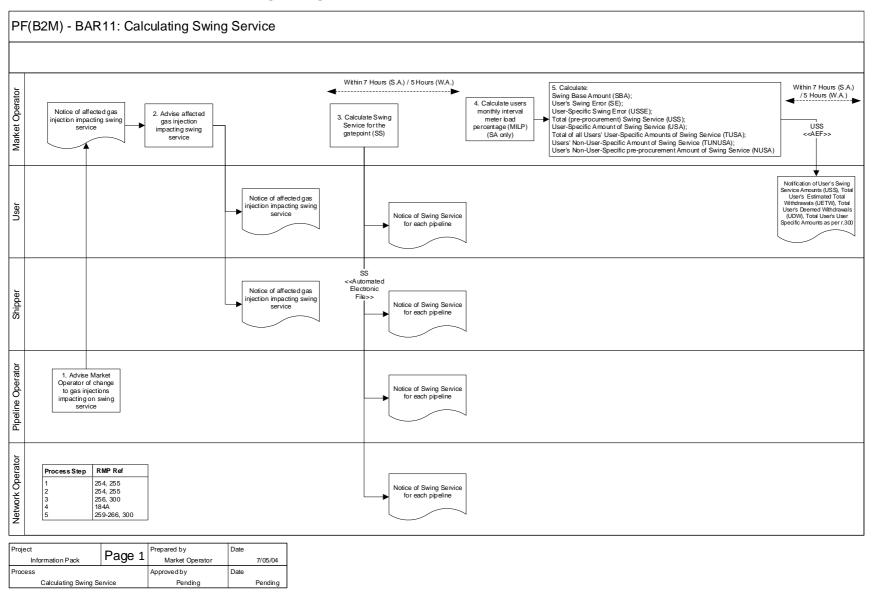
3.12. PF(B2M) - BAR10: Delivery Point Apportionment (WA)



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

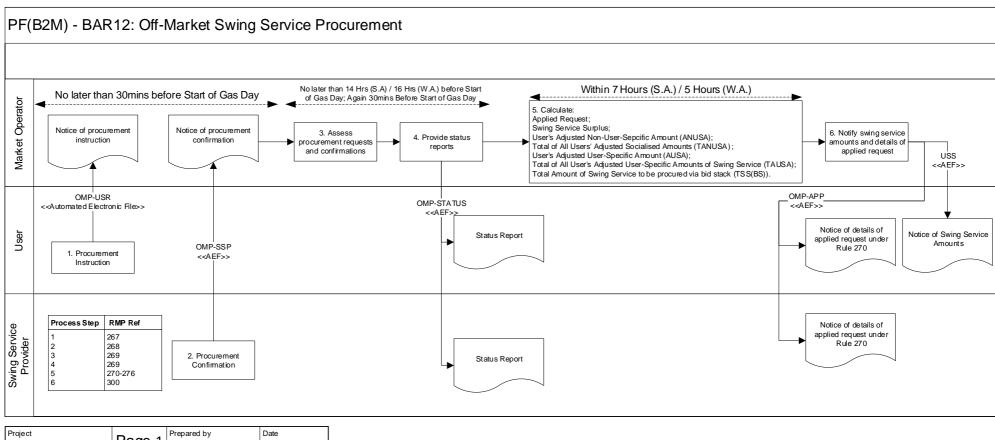


3.13. PF(B2M) - BAR11: Calculating Swing Service (WA)





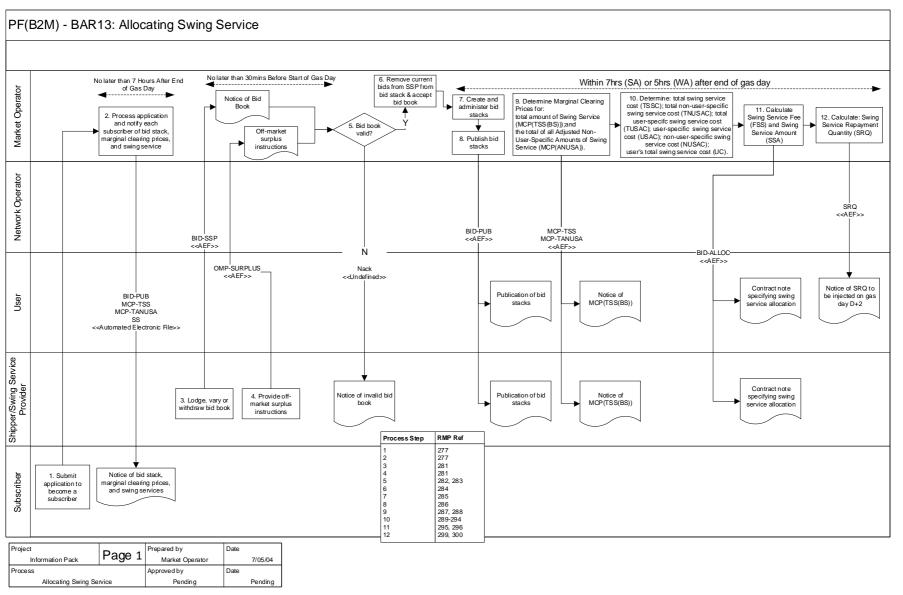
3.14. PF(B2M) - BAR12: Off-Market Swing Service Procurement (WA)



Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Off-Market Swing Service Procurement		Pending	Pending

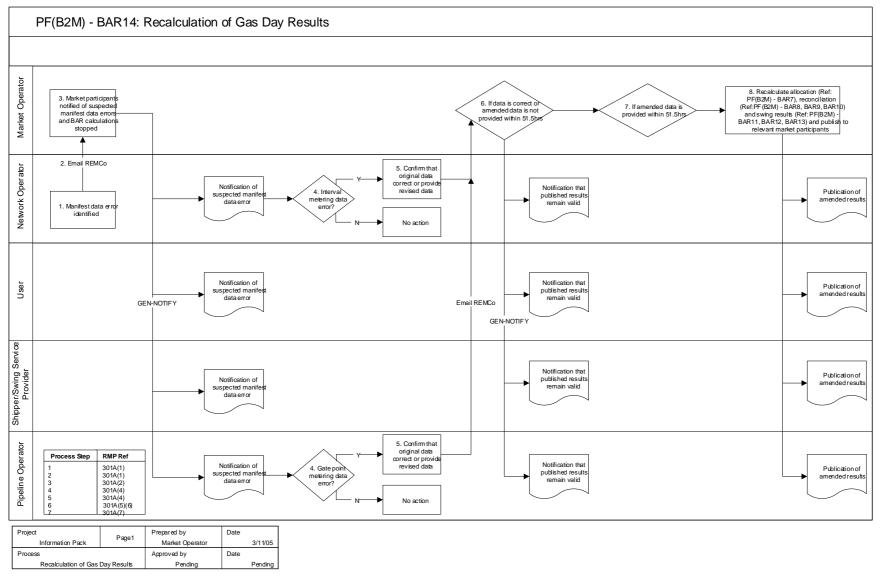


3.15. PF(B2M) - BAR13: Allocating Swing Service (WA)





3.16. PF(B2M) - BAR14: BAR (Suspension and) Recalculation of Gas Day Results (WA)

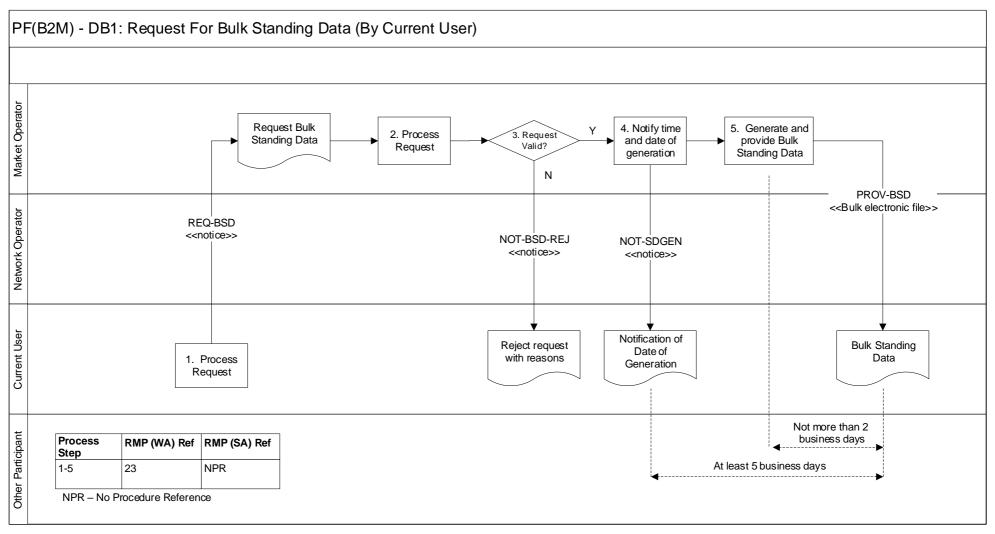




4.	1.	DATABASES		
			Databases	



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



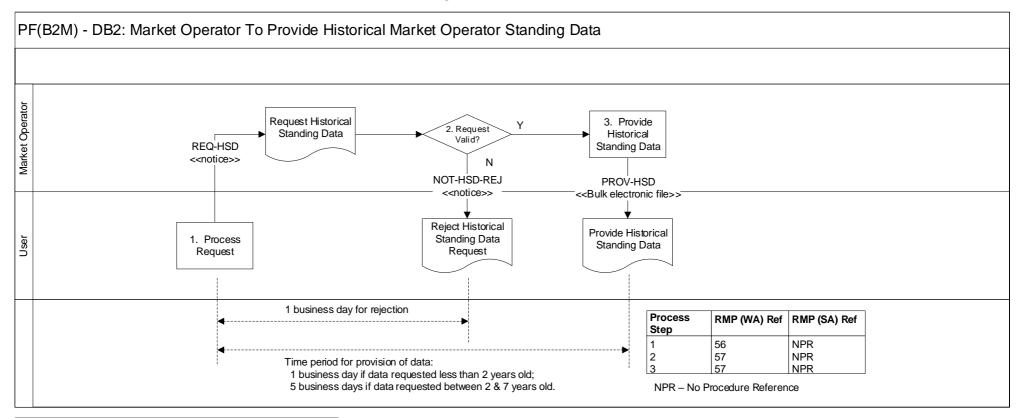
Project	Page 1	Prepared by	Date	
Information Pack		Market Operator		7/05/04
Process		Approved by	Date	
Request for Bulk Standi	ing Data	Pending		Pending

Notes:

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



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



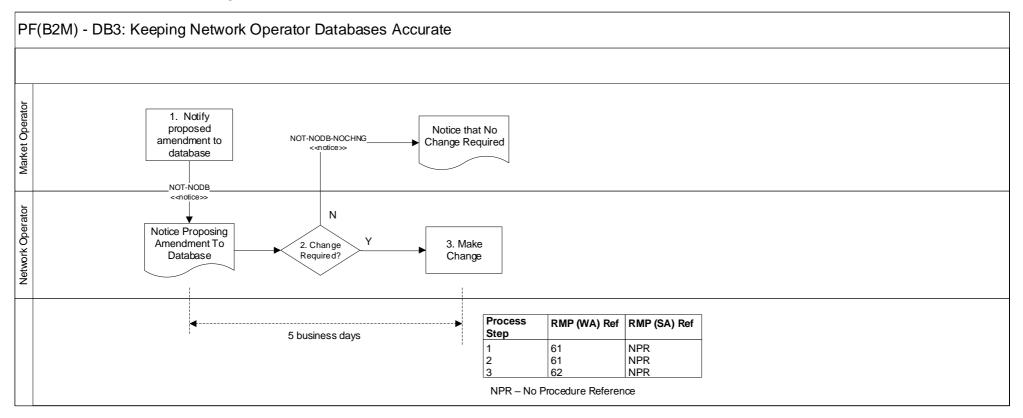
Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Market Operator To Provid Market Operator Standi		Pending	Pending

Notes:

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



4.3. 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:

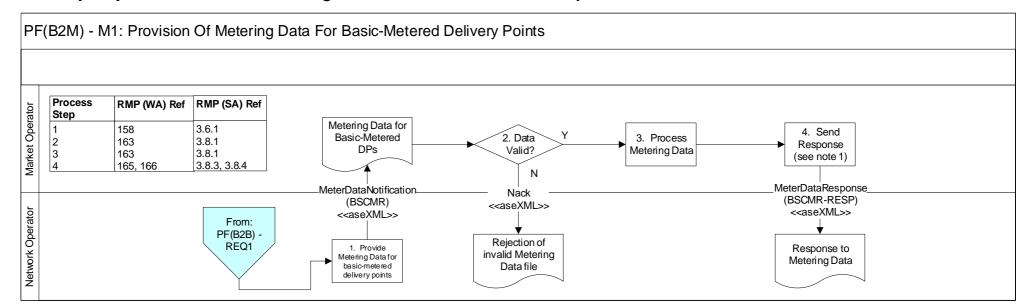
(1) Refer to PF(B2B) - DB1



5 .	METERING		,,
		Metering	



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



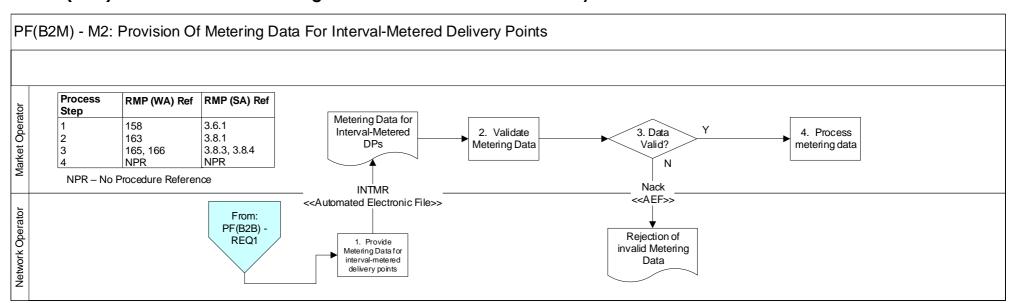
	Project	Page 1	Prepared by	Date	
	Information Pack		Market Operator		7/05/04
ſ	Process		Approved by	Date	
	Provision of Metering Data Metered Delivery Po		Pending		Pending

NOTES:

(1) MeterDataResponse may include entries for invalid meter readings.



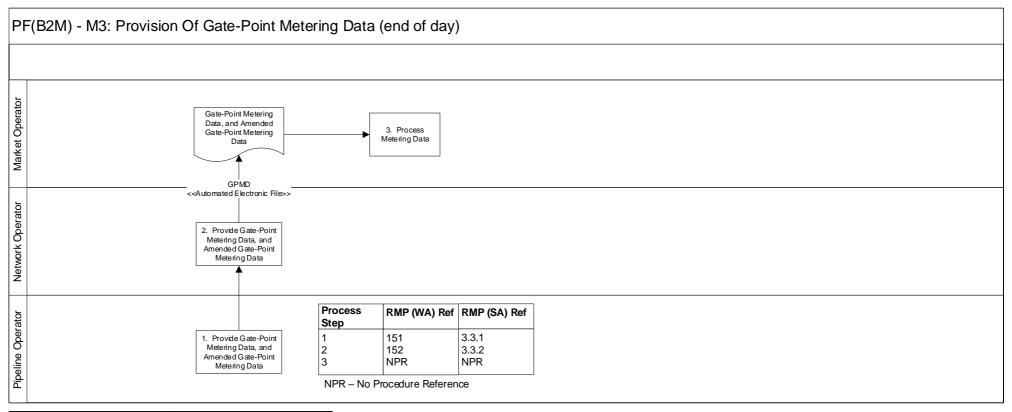
5.2. PF(B2M) - M2: Provision of Metering Data for Interval-Metered Delivery Points



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



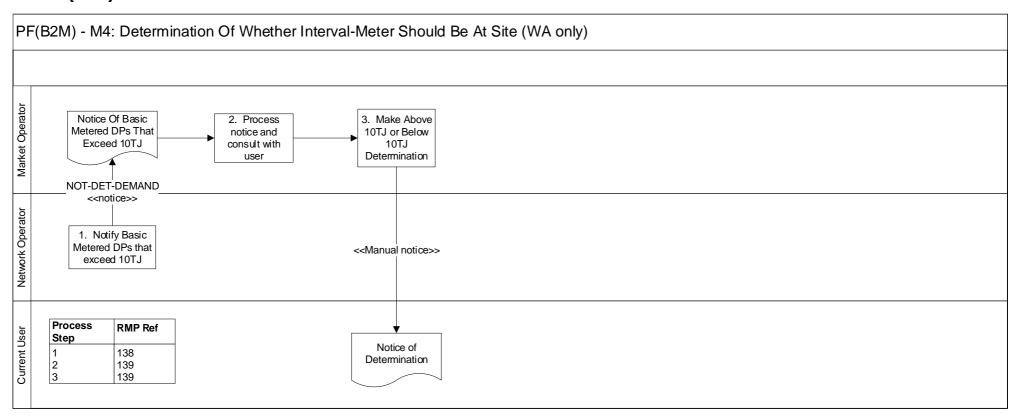
5.3. PF(B2M) - M3: Provision Of Gate-Point Metering Data



Project	Page 1	Da 22 4	Prepared by	Date	
Information Pack		Market Operator	7/0	5/04	
Process		Approved by	Date		
Provision of Gate-Point Me	tering Data	Pending	Pei	nding	



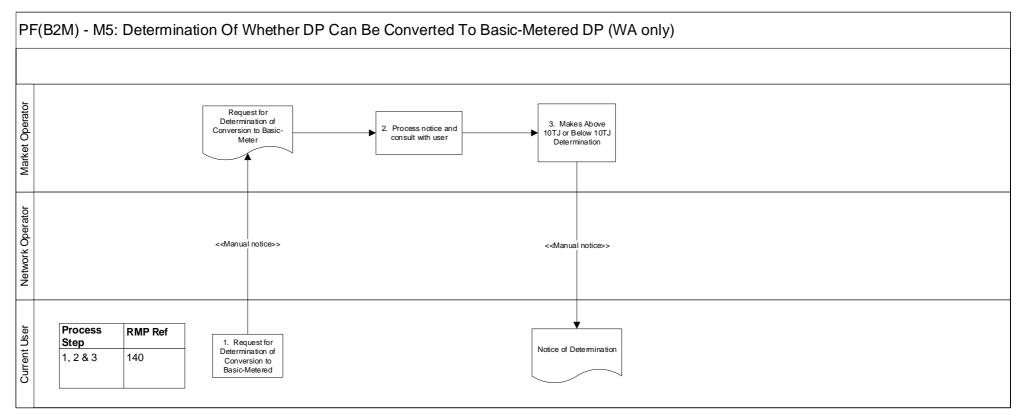
5.4. PF(B2M) - M4: Determination of Whether Interval-Meter Should be at Site



Project	Dogo 1	Prepared by	Date
Information Pack	Page 1	Market Operator	7/05/04
Process		Approved by	Date
Determination of whether in	Determination of whether interval-meter		Pending



5.5. 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

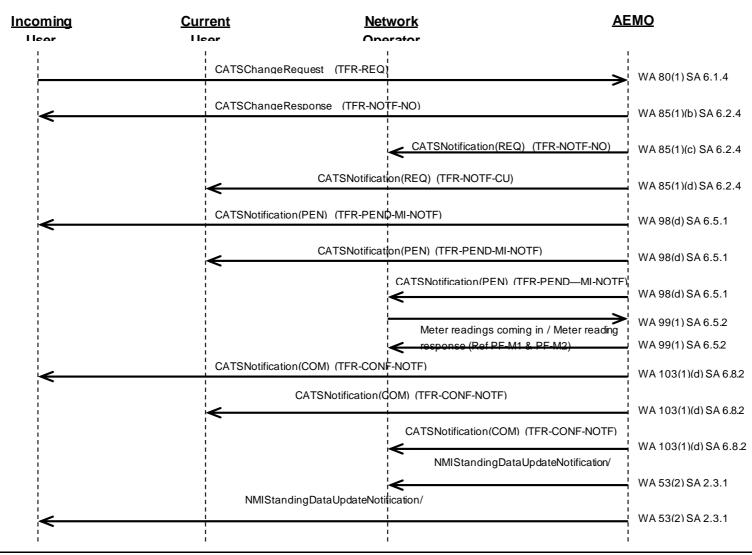


APPENDIX A SEQUENCE DIAGRAMS



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

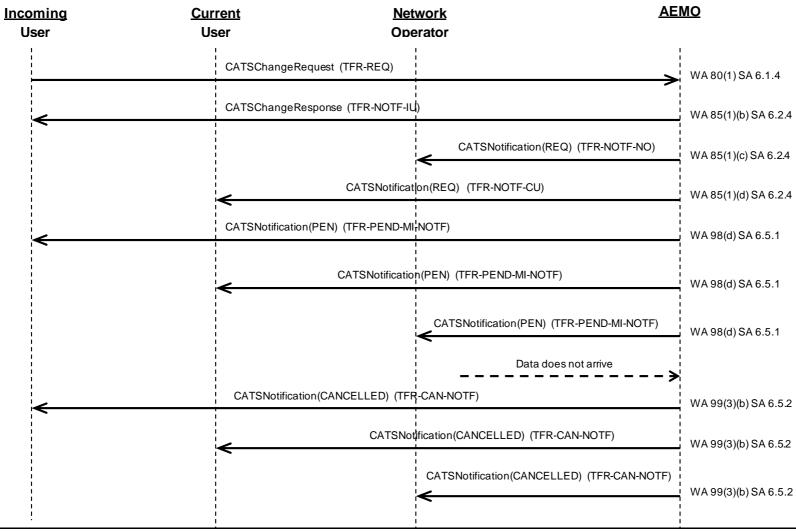
Transfer (Move In) Clean end to end (RMP WA 80) (RMP SA 6.1.4)





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

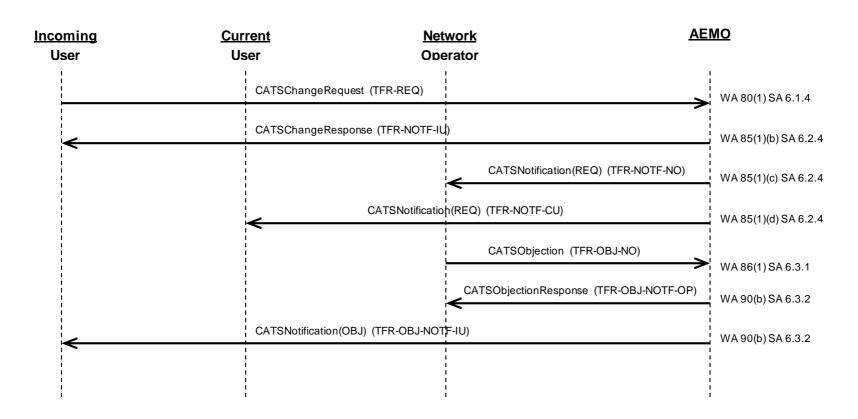
Transfer Cancel (No read/Timeout) (RMP WA 80, 99(3)(b)) (RMP SA 6.1.4, 6.5.2)





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

Transfer (Non Move In) Objection (RMP WA 80, 86) (RMP SA 6.1.4, 6.3.1)

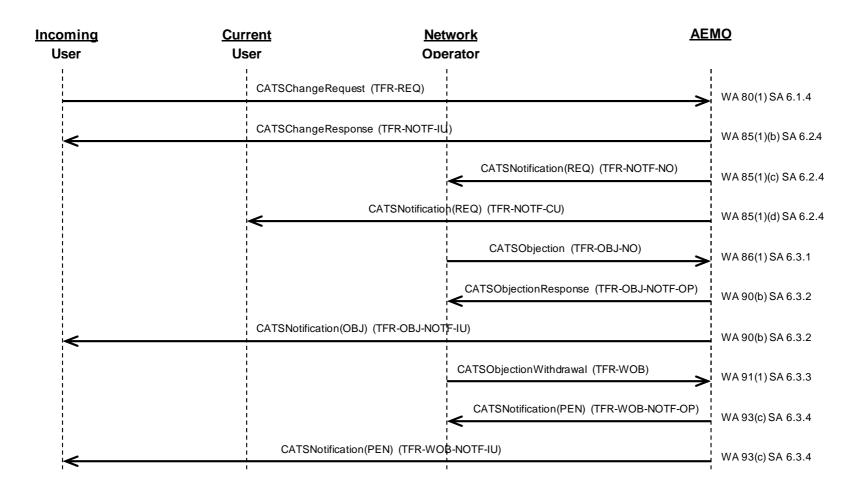


NOTE: TFR-OBJ-NOTF-IU will also contain objection data



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

Transfer (Non Move In) Objection Withdrawal (*RMP WA* 80, 86, 91) (*RMP SA* 6.1.4, 6.3.1, 6.3.3)

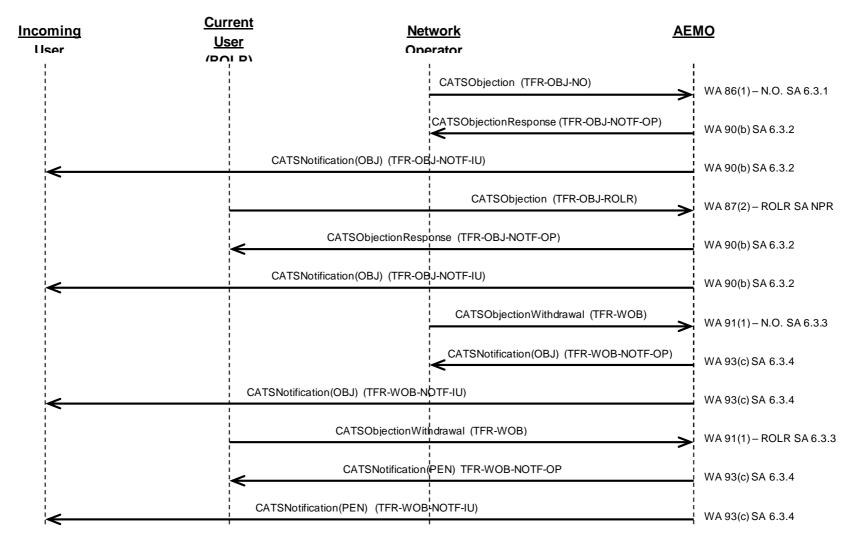


NOTE: TFR-OBJ-NOTF-IU will also contain objection data



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

Transfer (Non Move In) Objection Multiple Withdrawals (RMP WA 86, 87 (ROLR), 91) (RMP SA 6.3.1, NPR, 6.3.3)

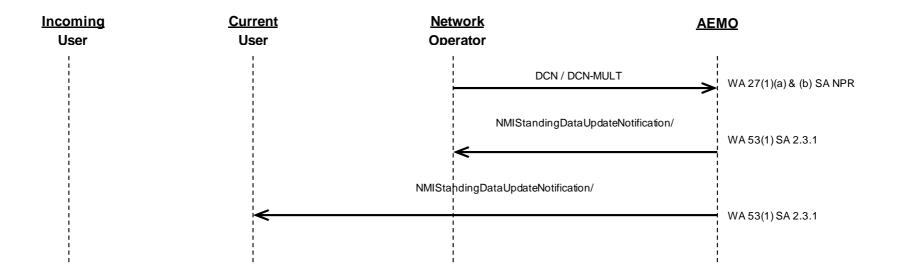


NOTE: TFR-OBJ-NOTF-IU will also contain objection data



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

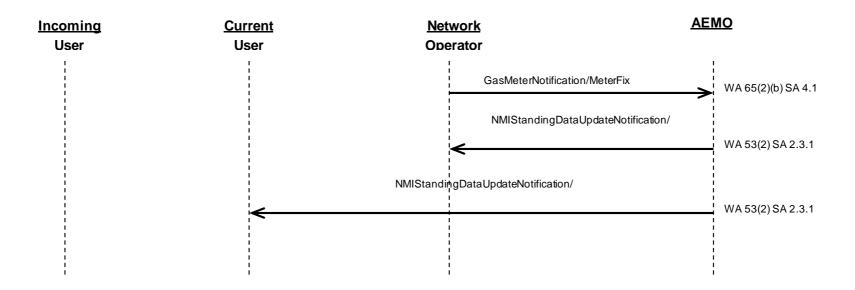
Change of Standing Data (Single/Bulk) (RMP WA 27) (RMP SA NPR)





5.11. SD(B2M) - R7: New Connection

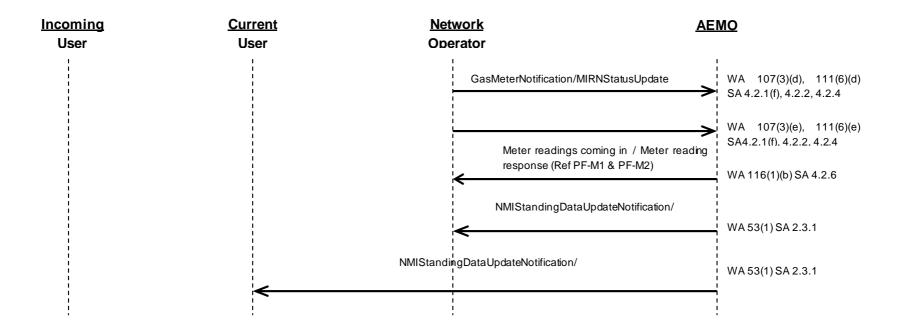
New Connection (RMP WA 65(2)(b)) (RMP SA 4.1)





5.12. SD(B2M) - R8: Disconnection (Clean)

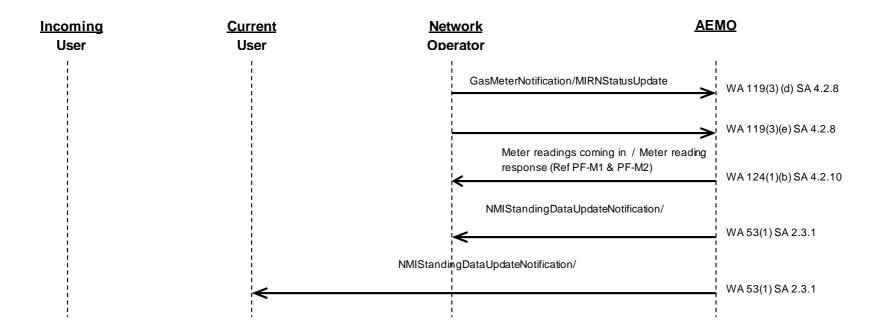
Disconnection (Clean) (RMP WA 107(3)(d), 111(6)(d)) (RMP SA 4.2.1(f), 4.2.2, 4.2.4)





5.13. SD(B2M) - R9: Reconnection (Clean)

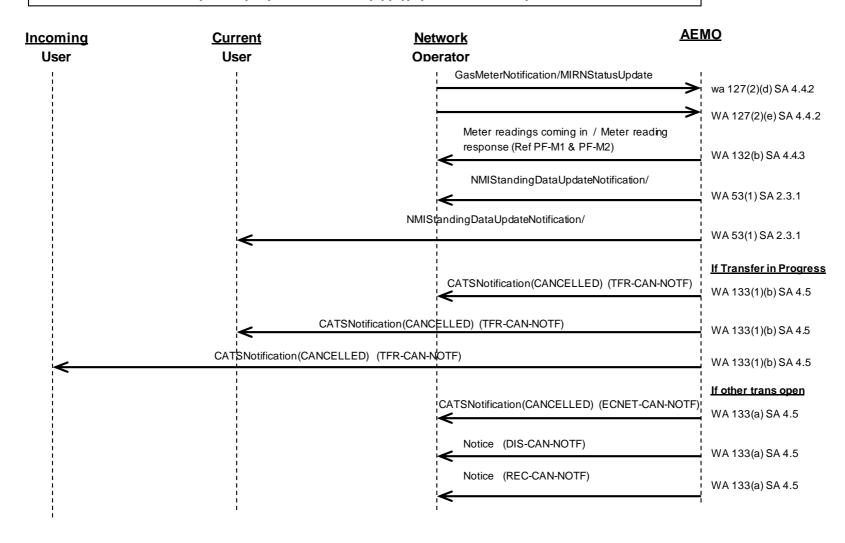
Reconnection (Clean) (RMP WA 119(3)(c)) (RMP SA 4.2.8)





5.14. SD(B2M) - R10: Permanent Removal (Clean)

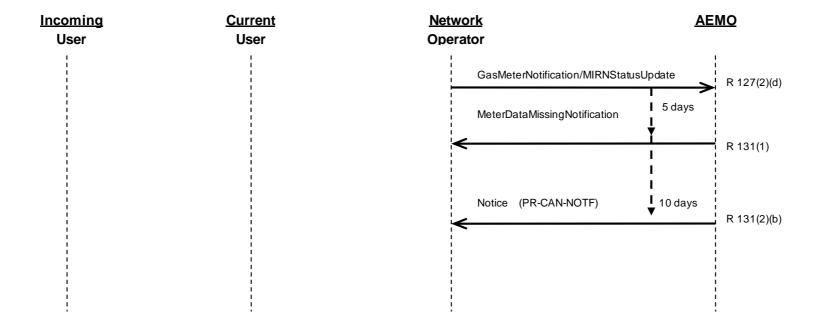
Permanent Removal (Clean) (RMP WA 127(2)(d)) (RMP SA 4.4.2)





5.15. SD(B2M) - R11: Permanent Removal (Fail To Get Read) (Western Australia Only)

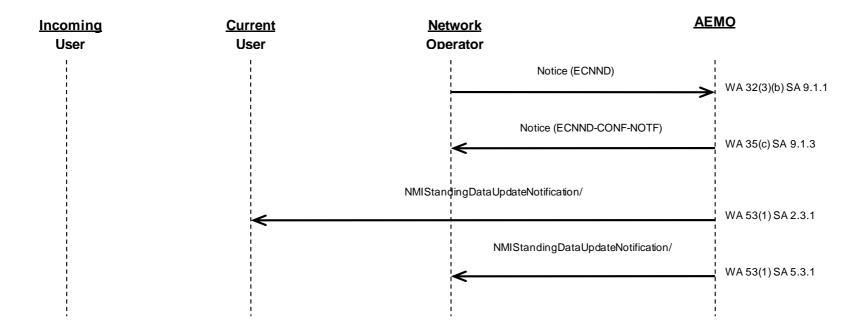
Permanent Removal (Fail to get read) (RMP 127(2)(d) & 131(1))





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

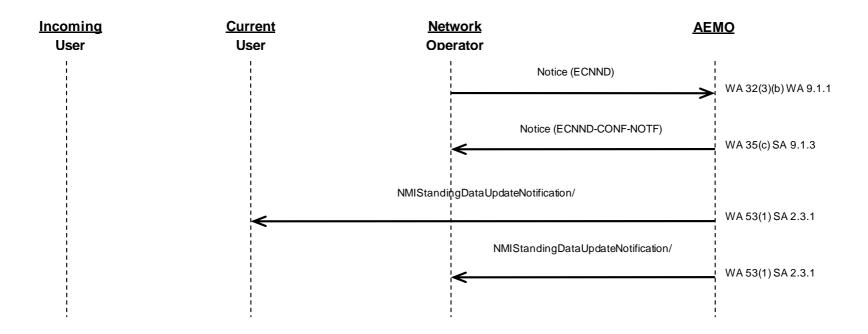
Error Correction for Permanent Removal (RMP WA 32, 35 & 53) (RMP SA 9.1.1, 9.1.3, 2.3.1)





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

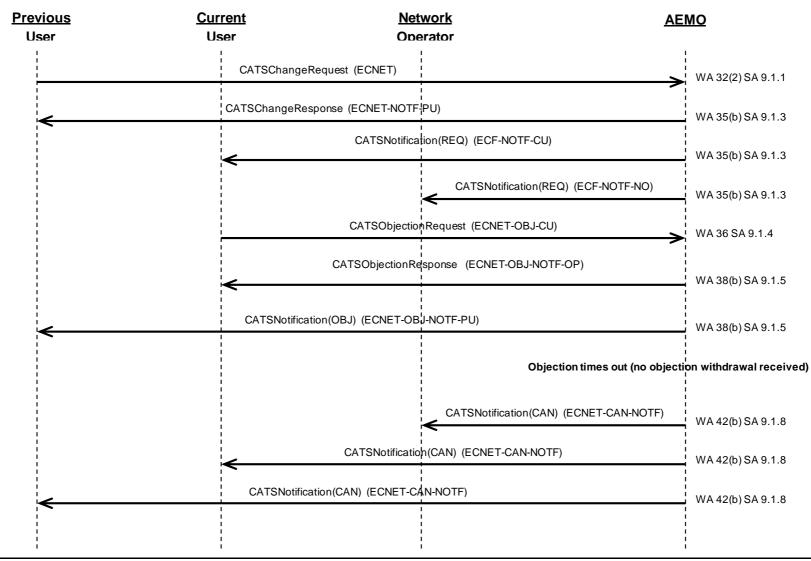
Error Correction for New Connection





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

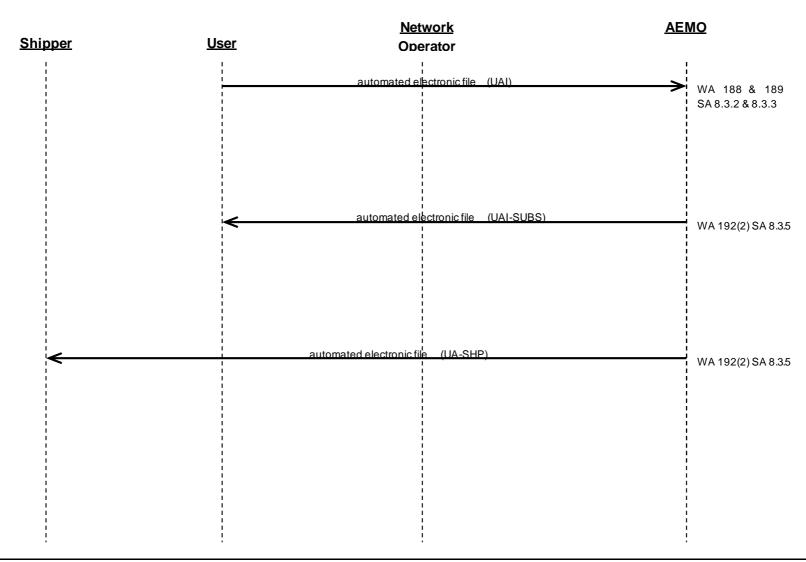
Error Correction of transfer (initiated by Previous User) with Objection Received from Current User (with objection timeout)





5.19. SD(B2M) - BAR2: Allocation Instructions

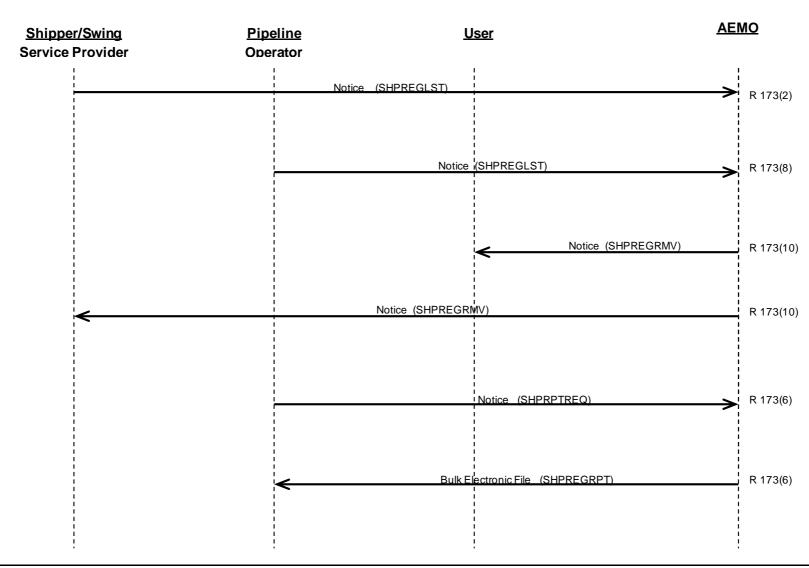
Allocation Instructions (RMP WA 184 & 188) (RMP SA NPR & 8.3.2)





5.20. SD(B2M) - BAR3: Shipper Register

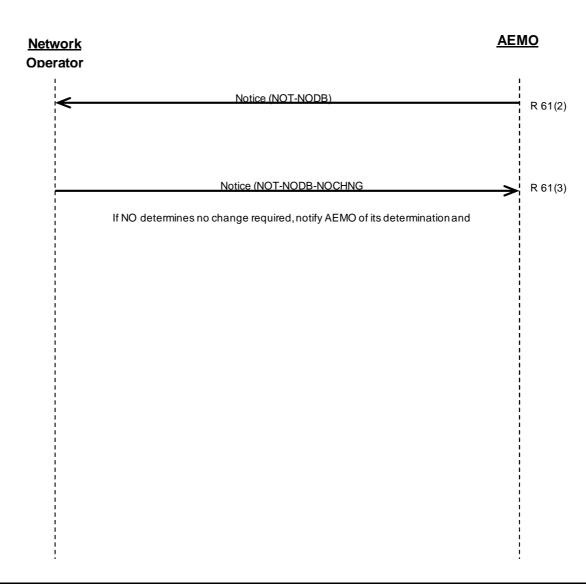
Shipper Register (RMP WA 173) (RMP SA 8.1.3)





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

Keeping Network Operator Databases Accurate (RMP WA 61) (RMP SA NPR)





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

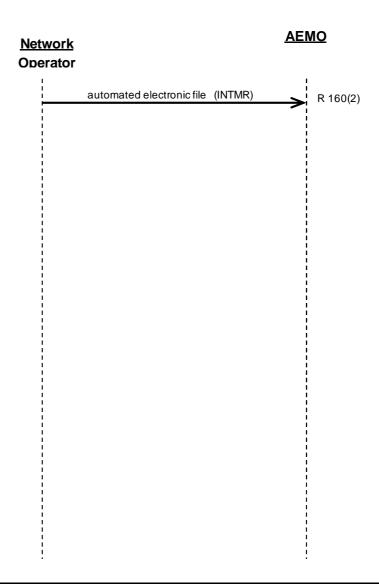
Provision of Metering Data for Basic-Metered Delivery Points (RMP WA 160(1)) (RMP SA 3.7.1)





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

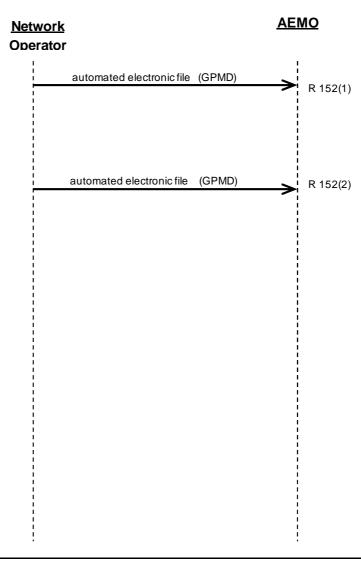
Provision of Metering Data for Interval-Metered Delivery Points (RMP WA 160(2)) (RMP SA 3.7.1)





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

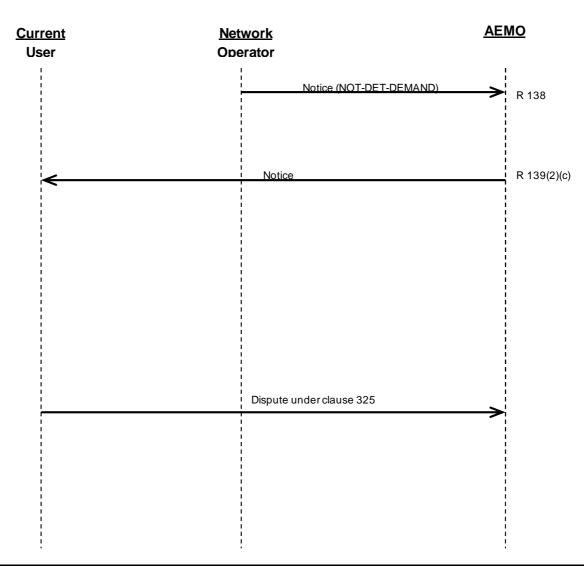
Provision of Gate-Point Metering Data (RMP WA 152) (RMP SA 3.3.2)





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

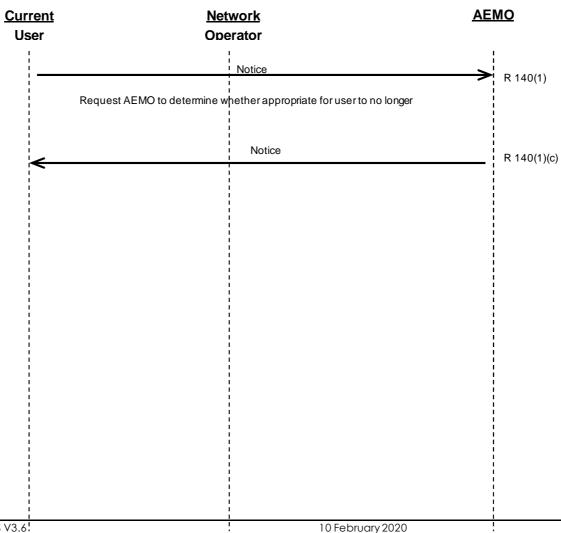
Above 10 TJ Determination (RMP 138, 139)





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

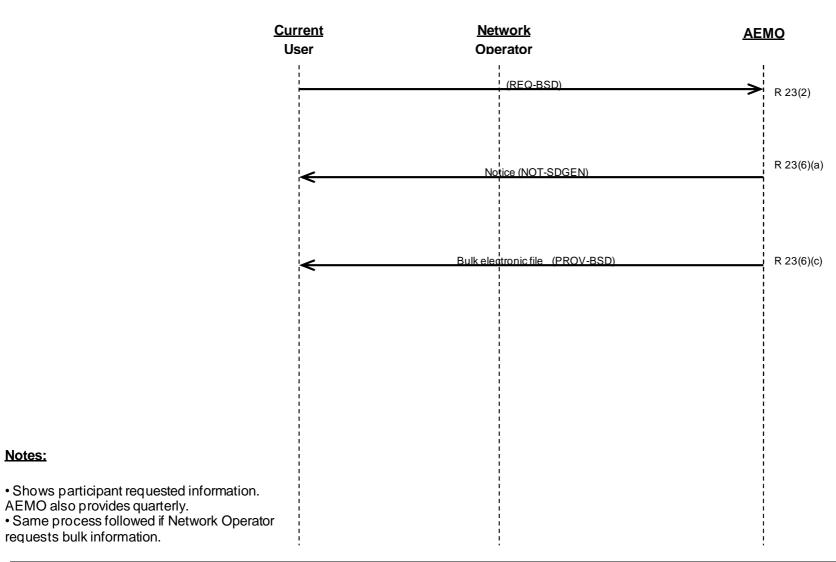
Below 10 TJ Determination (RMP 140)





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

Request for Bulk Standing Data (RMP WA 23) (RMP SA NPR)



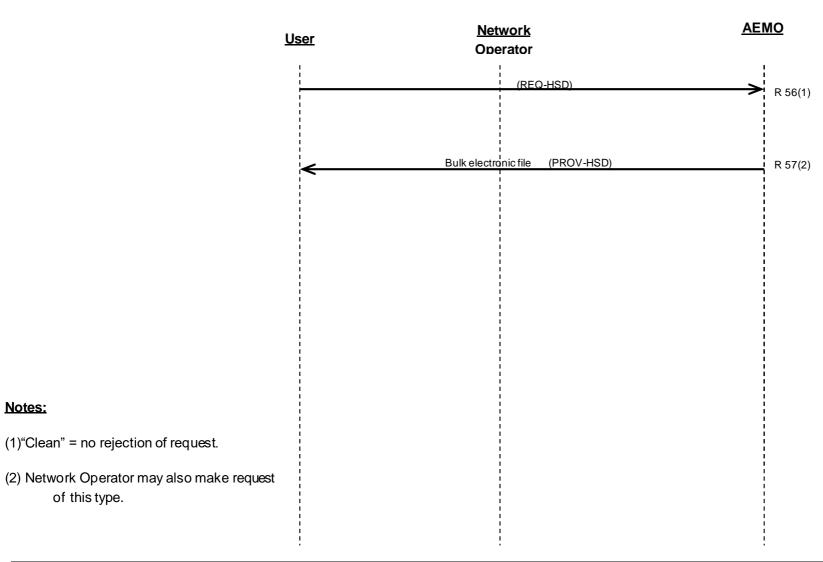
Notes:

requests bulk information.



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

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



(1)"Clean" = no rejection of request.

of this type.

Notes: