WA Gas Retail Market Systems

WA Business Specification

Client	:	Retail Energy Market Company Limited (REMCo)
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1. INTRODUCTION

1.1 Purpose

The purpose of this document is to provide a baseline definition of CGI's scope of work for the delivery of the Gas Retail Market System for Western Australia, in accordance with the Retail Market Rules [RMR].

The document is based on the Retail Market Rules and expands on the [RMR] based on the resolutions agreed between REMCo and CGI. These resolutions have been reached during a series of workshops to discuss issues raised against the [RMR] by CGI, REMCo representatives and market participants.

This Business Specification is a deliverable under the Systems Integration Agreement between REMCo and CGI. The Business Specification is not binding on any persons other than REMCo and CGI.

The Business Specification [BS] is therefore, where possible, a copy of the Business Rules that are applicable to CGI's Gas Retail Market Systems (GRMS) and processes, with necessary revisions to reflect the agreed resolutions.

Where references to the *Specification Pack* [SP] are included in this document, it refers to the latest version available of the specification Pack.

1.2 Scope

To keep a consistent baseline for future change, the Business Specification will be kept aligned with the Retail Market Rules document [RMR] and will be kept synchronised through the change control procedure.

1.3 Summary

Following this introductory section, each chapter in this document maps directly onto a [RMR] Chapter or Appendix.

1.4 Amendment History

Date	Issue	Change summary	Inits.
15/09/03	0.01	Final Draft Issued for Approval	KQ
24/09/03	0.02	Updated to include REMCo comments	JB
24/09/03	1.0	Issued for REMCo approval	JB
30/09/03	1.1	Issued definitive following incorporation of additional comments	JB
29/10/03	1.2	Updated to include changes to the RMR, up to and including version 2.0.	JB, TB, RS
10/11/03	1.3	Updated to include REMCo comments on v1.2	JB
11/11/03	1.4	Further updates to include REMCo comments	TB, RS
12/11/03	1.5	Further updates to include REMCo comments	JB, TB

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Date	Issue	Change summary	Inits.
19/11/03	1.6	Updated to include REMCo comments on v1.5	JB, MV
26/11/03	2.0	Updated definitive	JB
19/02/04	2.8	Updated to include CCN5 (sections 1-3, 6-10, Appendices). Includes the following Logica CRs: Logica CR05 Logica CR08	JB
19/02/04	2.8	Updated to include CCN5 (sections 4 & 5, Appendices)	MV
31/03/04	2.8	Updated to include CCN11 (sections 1-3, 6-10, Appendices). Includes the following Logica CRs: Logica CR09 Logica CR10 Logica CR16 Logica CR26 Logica CR35 Logica CR37 (except part 2) Logica CR38	JB
05/04/04	2.8	Modifications to section 3.3.25 for REMCo CR02 – changes to RMR v4.0b rule 101. (Supercedes Logica CR07)	JB
05/04/04	2.8	Following discussion with REMCo, updated section 3.4.1 such that ROLR transfer day is included in the NOT-ROLR transaction, and specified that the day can not be retrospective.	JB
22/04/04	2.8	Updated to include CCN11 (sections 4 & 5, Appendices)	MV
22/04/04	2.8	Removed references to Non-Automated Electronic File as per REMCo CR08 R289	IH
22/04/04	2.8	Added reference to acknowledge that elements of the Specification Pack will be obligated in CCN 10	IH
22/04/04	2.8	Added note in 1.1.7(2)(e) to say that any SA DST changes required will be defined post-go live	IH
22/04/04	2.8	Added note to section 1.3.5 stating that the GRMS will use standard email functionality, which may not meet the requirements defined in Rule 12(A)	IH
22/04/04	2.8	Updates for CR22	MV
07/05/04	2.9	Updates following REMCo Review	IH
07/05/04	2.9	Logica CR53: • Change PIPPROF to PIPPRF • Added reference to UAI-SUBS	IH
09/05/04	2.9	Includes Logica CR42	IH

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Date	Issue	Change summary	Inits.
09/05/04	2.9	Logica CR43 – Added text into clause 5.10.16(2)	IH
19/05/04	2.99	Added further comments in line with Dr Mark Flemming's final BAR BS review	IH
01/06/04	3.0	Update to definitive and issued for approval	IH
29/10/04	3.1	Update to include: • CCN20 changes. • OR457. Change to section 2.2.30 (DSD transaction following Error Correction of Permanent Removal). • OR839. Change to section 3.6.9 (Addition of permanent removal cancellation.) • OR744. Change to section **Error! Reference source not found.** (HDD report to network operator). • OR773/ CCN22. Change to section 5.17.29(7) (SRQ to swing service provider). • OR805/ CCN30. Change to section 5.6.3(3) (Calculation of pipeline ration). • OR806/ CCN32. Change to sections 5.12.1 and 5.12.2 (Deemed Injection Quantities by User). • OR804/ CCN33 Change to section 5.15.8 (Absolute value of UPNA for Swing Base Amount). • OR803/ CCN34 Change to section 5.15.11 (User's total (pre-procurement) swing service).	JB
10/11/04	3.1	Updated to include OR868/ CCN38 change to section 5.11.22(3) (NORM-NSL report to Network Operator).	JB
22/02/2005	3.1	Updated to include CCN31, section 2.2.9.	JB
24/02/2005	3.1	Updated to include CCN46, section 2.2.10.	JB
08/03/2005	3.2	Updated front page and version number – to keep in line with ICD (CCN43). Repaired formatting in section 5.	JB
01/08/2005	3.3	CCN55-Permanent Removal Requests	MV
03/08/2005	3.3	CCN54-Sving Service Price Caps	MV
03/08/2005	3.3	CCN56-Gas Emergency Procedures	MV
08/08/2005	3.3	CCN49-Recalculation of BAR Results	MV
11/10/2005	3.3	Remove changes for CCN54-Swing Service Price Caps	MV
14/10/2005	3.3	Remove changes for CCN56-Gas Emergency	MV

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Date	Issue	Change summary	Inits.
		Procedures	
17/10/2005	3.3	Updated contract details & issued definitive	SJM
14/04/2006	3.4	CCN56-Emergency Gas Procedures	DT
14/04/2006	3.4	CCN58-ROLR Provisions (WA)	DT
14/04/2006	3.4	CCN59-RUAFG & Negative NSL	DT
14/04/2006	3.4	CCN61-MRFC Pipeline	DT
14/04/2006	3.4	CCN62-Calculation of AUAFG	DT
27/09/2006	3.4	CCN64-Additional AUAFG Data	DT
27/09/2006	3.4	CCN65-HDD Greater or Equal to Zero	DT
27/09/2006	3.4	CCN66-Historical UETW	DT
13/11/2007	3.4	CCN75-Automation of BAR Recalculation process Updated 1.1.2, definition of "affected gas day"[RMR 2]; and 4.3.2 (1) (b) [RMR 152(3)]; and 4.3.2 (2) [RMR 152(3)]; and 5.24 [RMR 301B]; and 5.25 [RMR 301C]; and 5.26.1 (1) [RMR 301(2)]	GH
7/06/2011	4.0	Removed all references to South Australia Brought into line with REMCo Market Rules v6.0	RG
7/11/2013	4.1	CR126 – Verification of Shipper on sub-network. Added 3.1.5 (h) and 3.3.7 (j)	AR
1/1/2016	4.2	Updated from Logica to CGI New Parmelia Pipeline Interconnection on Perth Metro South (1107)	RG

1.5 Change Forecast

The content of this document will be kept up-to-date upon each contractual change notice approved by REMCo.

1.6 References

Mnemonic	Document	Source	Issue	Date
[RMR]	Retail Market Rules	REMCo	V6.8	24/04/2015
[ICD]	Interface Control Document	CGI	V4.4	1/01/2014
[BS]	Business Specification (this document)	CGI	V4.2	1/01/2016
[SIA]	Systems Integration Agreement	REMCo / CGI	N/A	12/09/2003
[SOSA]	Systems Operations Services Agreement	REMCo / CGI	N/A	July 2014
[SP]	Specification Pack [SP]	REMCo	5.2	1/1/2016

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1.7   Abbreviations

Abbreviations are fully expanded at their first place of inclusion in the document, and are referenced by the abbreviation thereafter.

1.8   Glossary

In order to reduce the impact of numbering changes in the document, Retail Market Rules relating to a specific functional area have been assigned to a section. Retail Market Rule headings have been maintained and the Rule Reference (with respect to the current version of the [RMR]) is included in square brackets at the end of the heading.

In the Retail Market Rules, there are many activities identified as being performed by 'REMCo'. In order to clearly identify the party responsible for performing various actions at a functional level and hence the scope of the GRMS automated system, the following terms have been adopted. These defined terms are used throughout this document and are additional to the definitions set out in clause 1.1.2, of the main body of this document:

Business Specification Reference	Description
REMCo	REMCo, or its nominated representatives.
the GRMS operations staff	The CGI market operations staff
the RMA	The Retail Market Administrator (may be REMCo or a body appointed by REMCo).
the data estimation entity	The GRMS automated subsystem responsible for handling the BAR functionality.
the registry entity	The GRMS automated subsystem responsible for handling the Customer Transfer and MIRN Registry functionality.
REMCO Initiating Receipt Id	A unique identifier provided in response to a transaction which initiates a business process within the GRMS (e.g. Initiation of Change of User). The *Receipt Id* is used as the identifier for that particular instance of the business process in all subsequent transactions in the business process by both the GRMS and *participants*.

Where there is an interface into or out of the system, it has been explicitly classified as one of the following:

Type of Dataflow	Description
AseXML	An automated aseXML transaction, routed via the Hub
bulk electronic file	A file which has a defined structure, which can be automatically processed, but does not have aseXML wrapping. This file has a non-specific method of

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	transport.
automated electronic file	A file which has a defined structure, which can be automatically processed, but does not have aseXML wrapping. This file type will be transferred using ftp, as defined in the [ICD].
notice	An unstructured instruction, such as fax, email etc.
acknowledgement	Dependent upon the method of transport for the initiating transaction, the acknowledgement of that transaction will be one of the following: • An aseXML transaction acknowledgement, as defined in the aseXML guidelines document • An ftp response, as defined in the [ICD]

Where one of the above dataflow types is implied in the text of this Business Specification, it is preceded or succeeded by the text "by means of a ...".

A cross reference is then made to the Interface Control Document [ICD]. This defines the context, logical data items and physical data mappings.

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1. Introduction

1.1. Commencement, definitions and Interpretation

1.1.1. Commencement [RMR][1]

The Retail Market Rules commenceon the *go-live date* in Western Australia;

1.1.2. Definitions [RMR][2]

In this document, unless the contrary intention appears:

"**accepted part"**, in Western Australia, has the meaning given to it in clause 5.6.2.

"**Access Arrangement**" means an arrangement for third party access to, as the case may be, a network operator's network or a pipeline operator's pipeline, in either case approved under the Gas Pipeline Access Law.

"**accurate**" includes complete, correct and current (where applicable, subject to the time frames for updating the *REMCo registry* and *network operators'* databases under this document).

"**active GBO identification**" means the status of the *GBO identification* in the *REMCo registry* is neither "suspended" or "deregistered".

"**actual allocation proportion**" has the meaning given to it under clause 5.13.1.

"**actual heating degree day**" is calculated under clause **Error! Reference source not found.**.

"**actual UAFG**" has the meaning given to it under clause 5.10.12.

"**actual value**" means, subject to clause 4.4.5, a value calculated under clause 4.4.3, and to avoid doubt includes a *deemed actual value*.

{Note: A *substituted value* may be used in place of an *actual value*.}

{Note: For a *basic-metered delivery* point, an *actual value* may be calculated after undertaking either a *scheduled meter reading* or a *special meter reading* and also for the purposes of a *deemed meter reading*.}

"**addressee**" has the meaning given to it in clause 1.3.4.

"**adjusted non-user specific amount**" has the meaning given to it under clause **Error! Reference source not found.**.

"**adjusted user-specific amount**" has the meaning given to it in clause 5.16.14.

"**affected gas day**":

(a) when used in rule 301A, means the gas day on which *REMCo* sends notice under 301A(3)(a); and

(b) when used in rule 301B, has the meaning given to it in rule 301B(1); and

(c) when used in 301C, has the meaning given to it in rule 301C(1).

allocation instruction" means a notice under clause 5.4.2 from a *user* to *REMCo* specifying how the *user's injections* into a *sub-network* are to be allocated between the *shippers injecting* gas into the *sub-network* on the *user's* behalf for a *gas day*.

"allowable period" means the period of 102 days after the lodgement of a *transfer request* under clause 3.3.4.

"alternative settlement period" means a period during which certain rules relating to the calculation and payment of swing service are suspended to allow for a *gas emergency,* as declared by REMCo.

"annual adjustment date" has the meaning given to it under section 8.

"anticipated annual consumption" means the annual volume of gas anticipated by a *network operator* to be *withdrawn* at a *delivery point*, determined in accordance with Appendix 2 .

 "ANUSA bid" has the meaning given to it under clause 5.17.15.

"applied request" has the meaning given to it in clause 5.16.9.

"approving body" meansthe person to whom an *endorsed rule change* must be submitted for approval under the *Energy Coordination Act 1994* (WA);

 "as-retrieved" means data as retrieved from field equipment by telemetry without any examination of the data to determine the validity or completeness of the data or whether there are any obvious errors or omissions in the data.

"auditor" means an auditor appointed under section 7.

"AUSA bid" has the meaning given to it under clauses 5.17.14 and 5.17.15.

"automated response message" means an email (**"reply email"**) sent automatically, subject to clause 1.3.5, upon receipt of an email (**"original email"**), where the *reply email* is sent from an *addressee's information system* to the *sender* of the *original email*, acknowledging that the *original email* has been received by the *addressee's information system* and containing:

(a) the name of the *originator* of the *original email*;

(b) at least the time, date and subject title of the *original email*;

{Note: The easiest means to record this information may be to include the whole of the *original email*, preferably excluding attachments, within the *reply email*.}

(c) the name of the *addressee* of the *original email*; and

(d) the date and time the *original email* was received by the *addressee's information system* (which in the absence of evidence to the contrary is taken to be the creation date of the *reply email)*

Note that the *REMCo information system* does not support *'automated response messages'*

"average temperature" is calculated under clause **Error! Reference source not found.**.

"basic meter" means a *meter* which is not an *interval meter*.

"basic metered", in relation to a *delivery point*, means that gas deliveries at the *delivery point* are measured by a *basic meter* or *basic meters*.

 "bid" means a bid by a *swing service provider* to *REMCo* for the provision of *swing service*, and is valid if it meets the criteria set out in clause 5.17.4.

"**bid book**" is lodged with *REMCo* under clause 5.17.4 and contains one or more *bids* for the provision of *swing service* for the *gas day* to which the *bid book* applies.

"bid stack" has the meaning given to it in clause 5.17.13.

"bulk REMCo standing data" has the meaning given to it in clause 2.1.8(1).

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"bulk REMCo standing data request" has the meaning given to it in clause 2.1.8(2).

"business day" means for each *jurisdiction* and for *REMCo* operating in each *jurisdiction*, the *business hours* of a day that is not a Saturday, Sunday or a public holiday in the relevant *jurisdiction*.

"business hours" means the period between *start of business* and *close of business*.
"cancel", in relation to a *transaction*, means terminate the *transaction* before completion.

"claim" includes any claim, legal action or demand.

"close of business" means 1700 hours in the relevant *jurisdiction*.

"commissioned", in relation to a *MIRN*, means that:

(a) the *delivery point* has been commissioned by the *network* operator under clause 3.1.3(1)(although this does not necessarily mean that the consumer's installation downstream of the *meter* is commissioned nor that the *meter* valve is turned on); and

(b) the *delivery point* is not *disconnected* or *permanently removed* (including after the *delivery point* has been *reconnected*); and

includes:

(c) if the delivery point's ability to flow gas has been temporarily interrupted by a means that may be restored by the consumer, rather than a licensed gas fitter or *network operator* (i.e. where the *meter* valve has merely been switched off); and

(d) short interruptions to the *delivery point's* ability to flow gas due to *network* maintenance such as a *meter* change.

"compensable swing quantity" has the meaning given to it in clause 5.17.29.

"compensating person" has the meaning given to it under clause 5.22.

"compliance panel" means the panel created under section 6.

"confidential information" means confidential and proprietary information of a *participant, pipeline operator* or *prescribed person*, that:

(a) is or might reasonably be expected to be confidential in nature or to be special, unique, proprietary or to give the person a competitive advantage; or

(b) is disclosed in circumstances of confidentiality.

"contract note" means a notice issued by *REMCo* under clause 5.17.29 allocating an amount of *swing service* between a *swing service provider* and a *user*.

"corrected recalculated ratio", in Western Australia, means the ratio calculated under clause 5.6.3(3).

"corrected volume" or **"V_{CR}"** means the volume of gas corrected to metric standard conditions and for the *basic meters* it is calculated using the following formula:

$V_{CR} = V_{UN} \times pressure\ correction\ factor.$

"cost" includes any cost, charge, expense, outgoing, payment or other expenditure of any nature whatever,

"current user", in relation to a *delivery point*, means the *user* who is assigned to the *delivery point* in the *REMCo registry*.

"customer" means a *person* who takes or intends to take gas from a *user* at a *delivery point*.

"daily unaccounted for gas reconciliation amount", for a *sub-network*, is a quantity of gas and is calculated under clause 5.11.13.

"data change notice" means a notice under clause 2.2.4(2)(b) by a *network operator* for the *delivery point* to *the registry entity* regarding a change, or anticipated change, to items specified in clauses 2.1.3(1)(f), 2.1.3(1)(g), 2.1.3(1)(h), 2.1.3(1)(k) or 2.1.3(1)(l) of the *REMCo standing data* for a *delivery point*.

"data change transaction" means the transaction initiated by lodgement of a *data change notice*

"decommissioned", in relation to a *MIRN*, means that the *delivery point* has been *disconnected*.

"deemed actual value" means the *actual value* contained in a *deemed meter reading*.

"deemed meter reading" is defined in clause 4.2.6.

"delisting request" means a request under clause 5.3.2(b) by a *shipper* or a *swing service provider* to *REMCo* to remove the *shipper's* or *swing service provider's* listing from a *shipper register* in respect of a *user* and a *sub-network* from a specified *effective date*.

"delivery point" means a point defined in a *haulage contract* as the point on the *sub-network* at which a *network operator* delivers gas out of the *sub-network* to a *user*.

"delivery point identifier", for the purposes of the *REMCo Constitution*, has the same meaning as *MIRN* in these rules.

"delivery point transaction", in relation to a *delivery point*, means any or all of a *new connection confirmation notice*, a *permanent removal confirmation notice* and a *transfer*.

"delta basic-meter withdrawal reconciliation amount" or **"ΔBWRA"**, for a *user*, is a quantity of gas and is calculated under clause 5.11.17.

"delta pipeline injection" or **"ΔPI"**, for a *gate point*, is a quantity of gas and is calculated under clause 5.11.9.

"delta summed basic-meter reconciliation amount", for a *user*, is a quantity of gas and is calculated under clause 5.11.14.

"delta unaccounted for gas", for a sub-network, is a quantity of gas and is calculated under clause 5.11.12.

"deregistered", in relation to a *MIRN*, means that the *delivery point* has been *permanently removed*.

"disconnected", in relation to a *delivery point*, means that the *delivery point's* ability to flow gas has been temporarily interrupted in such a manner that gas flow may not lawfully be restored by the *customer*. {Note: This means, for example, that either the regulator has been removed, the meter has been temporarily removed or the *meter* valve has been locked by the *network operator*. The *user* remains responsible for the *delivery point*.}

"disconnection confirmation notice" means a notice under clause 3.5.8 from a *network operator* to *the registry entity* advising *REMCo* that a *delivery point* has been *disconnected*.

"disconnection notice" means a notice under clause 3.5.1 from a *user* to a *network operator* requesting *disconnection* of a *delivery point* specified in the notice.

"disconnection withdrawal notice", means a notice under clause 3.5.4 from a *user* to a *network operator* withdrawing an *open disconnection notice* for a *delivery point* specified in the *disconnection withdrawal notice*.

"discovery address", in relation to a *delivery point*, means the address of the premises comprising (as applicable):

(a) flat/unit type; and

(b) flat/unit number; and

(c) floor level type; and

(d) floor level number; and

(e) building/property name; and

(f) location; and

(g) house number; and

(h) house number suffix; and

(i) lot number; and

(j) lot number suffix; and

(k) street name; and

(l) street type code; and

(m) street suffix; and

(n) suburb/place/locality; and

(o) *State*/Territory; and

(p) post code.

"dispute" includes any difference, dispute, matter, question, controversy, *claim* or legal action in connection with or arising out of clauses within this document.

"distributed actual basic-metered withdrawal", or "**DABW**", for *a basic-metered delivery point,* is determined under clause 5.11.1.

"distribution licence" meansa licence that authorises the licence holder:

(i) to construct a *GDS* and to transport gas through the *GDS*; or

(ii) to transport gas through an existing *GDS*, and if required for that purpose to make alterations to the *GDS*,

and to operate and maintain the *GDS*;

"distribution tariff code", for a *delivery point*, means a code determined by a *network operator* as a *reasonable and prudent person* and published in accordance with clause 1.1.8, which provides information concerning the applicable haulage tariff and the existence of *delivery point*-specific charges under the *user's haulage* contract in respect of the *delivery point.*

"dog code" refers to a list of codes contained in the "FRC B2B Systems Interface Definitions" in the *Specification Pack [SP].*

"earlier allocation instruction" has the meaning given to it in clause 5.4.4.

"earliest transfer day" means the date specified in a *transfer request* as the earliest day on which the *requested transfer* may take place, which for a *move in* would be the date the *customer* is moving into the premises.

"Economic Regulation Authority" has the same meaning as "Authority" has under the *Energy Coordination Act 1994 (WA).*

"EDD" means effective degree day.

"E$_{(D)}$" is calculated under clause <mark>Error! Reference source not found.</mark>.

"E$_{(D-1)}$" is calculated under clause <mark>Error! Reference source not found.</mark>.

"**E(D-2)**" is calculated under clause <mark>**Error! Reference source not found.**</mark>.

"**E(D-3)**" is calculated under clause <mark>**Error! Reference source not found.**</mark>.

"**effective date**", as used in clause 5.3.2 and associated definitions, has the meaning given to it by that rule.

"**electronic form**" means a structured electronic file that is capable of being downloaded.

"**endorsed rule change**" means a rule change endorsed by *REMCo* under section 9.

"**energy value**" means an *actual value*, a *deemed actual value*, an *estimated value* or a *substituted value*, as applicable.

"**energy value type**" means one of the four types of an *energy value*, namely *actual value*, *deemed actual value*, *estimated value* or *substituted value*, as applicable..

"**error correction notice**" means a notice under clause 2.2.9(6) to *REMCo* regarding a correction to the *REMCo standing data* for a *delivery point* as a result of an incorrect *delivery point transaction*.

"**error correction transaction**" means the *transaction* initiated by lodgement of an *error correction notice*.

"**error correction objection**" means a notice under clause 2.2.13(2) from a *participant* to *REMCo* objecting to an *error correction transaction* lodged in respect of an incorrect *transfer request*, for a *delivery point* specified in the notice.

"**error correction objection resolution period**" means (as applicable):

(a) if an *error correction objection* is not lodged under clause 2.2.13(1) — the period ending when the time allowed for lodging an *error correction objection* under clause 2.2.13(1) expires; or

(b) if an *error correction objection* is lodged under clause 2.2.13(1) — the period ending when the time allowed for lodging an *error correction objection withdrawal notice* under clause 2.2.16(1) expires.

"**error correction objection withdrawal notice**" means a notice under clause 2.2.16(2) from a *participant* to *REMCo* withdrawing an *open error correction objection* for a *delivery point* specified in the notice.

"**error correction withdrawal notice**" means a notice under clause 2.2.20(3) from a *current user* to *REMCo* withdrawing an *open error correction notice* lodged in respect of an incorrect *transfer request*, for a *delivery point* specified in the notice.

"**error pipeline**" has the meaning given to it under clause 5.11.8.

"**estimated basic-metered withdrawal**" for a *basic-metered delivery point* is calculated under clause 5.10.13.

"**estimated value**" means a value calculated under clause 4.4.4, and (except in clause 4.4.5) does not include an *estimated value* which has been designated under clause 4.4.5 to be a *substituted value*.

"**EUAFG**" means estimate of unaccounted for gas under clause 5.10.4.

"**explicit informed consent**" means consent given by a *customer* under section 7.

"**farm tap sub-network**" means a *delivery point* which is connected to only one *pipeline* and is not connected by a *GDS* or part of a *GDS* to any other *delivery point*, which a *network operator* identifies under clause 1.5.1 as a *sub-network* for contractual and operational purposes and which is listed in Appendix 1 .

"final check" has the meaning given to it under clause 5.16.7.

"first check" has the meaning given to it in clause 5.16.7.

"flow signal" has the meaning given to it in [RMR][217A]

"forecast heating degree day" is calculated under clause **Error! Reference source not found.**.

"FRC Hub" means the *information system* provided by *REMCo* for the transmission of aseXML messages under these rules.

"FRC Hub certification criteria" means the criteria specified in the *FRC Hub Conditions*.

"FRC Hub certification testing process" means the testing process set out in the *FRC Hub Conditions* to ensure that a person's *information system* complies with the requirements of the *FRC Hub Conditions*.

"FRC Hub compliance certificate" means a digital certificate issued by *REMCo* certifying that the person named in the certificate is entitled to send and receive *notices* under the Retail Market Rules via the *FRC Hub*.

"FRC Hub Conditions" means the terms and conditions that apply between *REMCo* and any business that sends or receives transactions via the *FRC Hub*, as amended from time to time under the Retail Market Rules.

"FSS" means the swing service fee calculated under clause 5.17.23.

"full business day" means a full 9 hour period commencing at *start of business* and ending at *close of business*.

{Examples: If an objection must be lodged within 2 *full business days* after a *process time*, then:

(a) if the *process time* is 7.59am on Tuesday, the objection must be lodged before 5.00pm on Wednesday; and

(b) if the *process time* is 8.01am on Tuesday, the objection must be lodged before 5.00pm on Thursday; and

(c) if the *process time* is 11.00am on Friday, the objection must be lodged before 5.00pm on Tuesday; and

(d) if the *process time* is 11:00pm on Tuesday, the objection must be lodged before 5:00pm on Thursday.}

"gas day" means the 24 hour period starting at 0800 hours on a day and ending at 0800 hours on the following day; **"gas day D"** has the meaning given to it in clause 1.1.3.

"gas emergency" means either an emergency as defined in Schedule 3 – Gas Supply System Emergencies – of the Emergency Coordinator Act 1994, or that an operator has taken action under clause 2 of schedule 3 of the Energy Coordination Act 1994.

"gas installation" has the same meaning as it has under the *Gas Standards Act 1972*;

"Gas Pipeline Access Law" means the legislation, including the National Third Party Access Code for Natural Gas Pipeline Systems, having effect in Western Australia under the *Gas Pipeline Access (Western Australia) Act 1998* (WA);

"gas zone" means a part of a *GDS* which a *network operator* identifies under clause 1.5.1 as a gas zone for contractual and operational purposes.

"gas zone code" means the 5-digit numeric gas code assigned to each *gas zone* within a *GDS* under Appendix 1 .

"gate point" for a *sub-network* means a point (which may be the same location as a *physical gate point*), which is designated as the gate point under clause 5.1.1 for the *sub-network*.

"gate point adjustment amount", for a *gate point*, is a quantity of gas and is calculated under clause 5.11.19.

"gate point metering data" has the meaning given to it under clause 4.3.2.

"GBO identification" means the unique gas business operator identifier issued by *REMCo* under clause 2.1.5 to *REMCo* and to each person required to comply with the Retail Market Rules.

"GDS" means the gas distribution system, being those pipelines owned and operated by a *network operator*.

"go-live date" means the date on which Part 3, other than Divisions 3, 10 and 11, of the *Energy Legislation Amendment Act 2003* comes into operation as fixed by proclamation or such later date as the Western Australian *REMCo members* and *REMCo* unanimously agree; and

 "GST" has the same meaning as it has under the *A New Tax System (Goods and Services Tax) Act 1999* (Cth).

"haulage contract" means a contract between a *network operator* and a *user* for the transportation of gas through the *network operator's GDS*, and for the purposes of clause 3.3.10(1), also mean that:

(a) any condition precedent to the contract has been satisfied or waived; and

(b) no notice to validly terminate the contract has been issued by a party to the contract to the other party.

"HDD zone" has the meaning given to that term in the Appendix 11.1.

"hearing" means that part of the *proceeding* during which the *compliance panel* receives oral submissions from *parties*.

"heating degree day" is calculated under clause **Error! Reference source not found.**.

"heating value" has the same meaning as **"higher heating value"** has in the *Gas Standards (Gas Supply and System Safety) Regulations 2000* (WA).; and

 "heating value data" means the *heating value* for a *gas zone* for a *gas day* that is calculated under clause 4.5.1.

"historical gas day i" has the meaning given to it under clause 5.10.1(3).

"historical metering data" means the *metering data* for every *delivery point* in a *network operator's GDS* retained in accordance with clause 4.4.17.

"historical meter reading data", in relation to a *delivery point*, means the *meter reading data* for the *delivery point* retained under clause 4.4.17.

"historical period" has the meaning given to it under clause 5.10.1(3).

"historical REMCo standing data", in relation to a *delivery point*, means the *REMCo standing data* for the *delivery point* retained by *REMCo* under clause 2.3.1.

"historical REMCo standing data request" means a notice under clause 2.3.3(4) from a *user* or a *network operator* to *REMCo* requesting *historical REMCo standing data* for a *delivery point* specified in the request.

"historical UAFG day" has the meaning given to it in clause 5.11.21.

CGI

"hourly basic meter withdrawal" has the meaning given to it in clause 5.14.3.

"hourly interval-metered withdrawals" or **"HIW"**, in Western Australia, has the meaning given to it in clause 5.14.1.

"hourly net system load" has the meaning given to it in clause 5.14.2.

"hourly sub-network profiled forecast", in clause **Error! Reference source not found.** means the component for the hour of the *sub-network profiled forecast*.

"H$_{sun}$" has the meaning given to it in clause **Error! Reference source not found.**.

"immediately", in relation to a notice, is defined in clause 1.3.3(1).

"impact and implementation report" means a report under section 9 from *REMCo* to the *rule change committee* on a *proposed rule change*.

"inaccurate" means not *accurate*.

"inactive GBO identification" means the status of the GBO identification is recorded as "inactive" in the REMCo registry.

"incoming user" means a *user* or prospective *user* who wishes to withdraw gas at a *delivery point* where another *user* is the *current user*.

"index reading" means the numerical reading of a *meter* index, which represents uncorrected volume, as observed by the *meter* reader when physically undertaking a *meter reading*.

"index type" means an indicator showing whether a *meter* reads in metric or imperial units.

"indirect damage" suffered by a person means:

(a) any consequential loss or damage however caused, including any:

    (i) loss of (or loss of anticipated) use, production, revenue, income, profits, business and savings; or

    (ii) loss or damage due to business interruption,

    whether or not the consequential loss or damage was foreseeable; and

(b) any liability of the person to any other person, or any claim, demand, action or proceeding brought against the person by any other person, and any costs or expenses in connection with the claim, demand, action or proceeding.

"information system" means equipment, hardware and software of a person required to comply with these rules which is used to perform the person's obligations under these rules.

"injecting" means the process of delivering gas out of a *pipeline*, through a *gate point* and into a *sub-network*.

"interest rate" means Westpac Banking Corporation's Reference Lending Rate as published from time to time in a newspaper having national circulation.

"interested person" means, in relation to a matter:

(a) a government representative in the *jurisdiction*; or

(b) *OffGAR* in Western Australia; or

(c) any other person that (as applicable) the *Economic Regulation Authority* in Western Australia considers has a legitimate interest in the matter or should be consulted in relation to the matter.

"interval meter" means a *meter* which:

(a) is read by means of *telemetry*; and

(b) aggregates the flow of gas across time, and records that flow for each hour.

"interval metered", in relation to a *delivery point*, means that gas deliveries at the *delivery point* are measured by an *interval meter*.

"invoice period" means:

(a) in relation to the *service fee* — the period of 12 calendar months; and

(b) in relation to the *market share charge* — the period of a calendar month.

"jurisdiction" means Western Australia.

"last date of modification", for a *delivery point*, means the date the last update to any item of *REMCo standing data* became effective in the *REMCo registry*.

"last valid day" has the meaning given to it in clause 5.10.9.

"law" means all:

(a) written and unwritten laws of the Commonwealth of Western Australia and of any other State, Territory or foreign country having jurisdiction over the subject matter of these rules; and

(b) judgments, determinations, decisions, rulings, directions, notices, regulations, by-laws, statutory instruments, Codes of Practice, Australian Standards or orders given or made under any of those laws or by any government agency or authority.

"like day substitution methodology" has the meaning given to that term in Appendix 2.3.

"listing request" means a request by a *shipper* or a *swing service provider* to *REMCo* to list it in the *shipper register* in respect of a *user* and a *sub-network* from a specified *effective date*.

"loan swing service" means a service whereby a *swing service provider* permits a *user* to 'borrow' (or notionally withdraw) gas from a *pipeline* at a *gate point*, on the terms of a *swing service contract*. To avoid doubt, the provision of a loan swing service by a *swing service provider* involves the supply of a gas capacity service and it does not involve the physical supply of gas.

"**maintain**" includes (as necessary and as applicable) calibrate, test, verify renew, replace or update.

"marginal clearing price for the total of all adjusted socialised amounts of swing service" or **"MCP(ANUSA)"** has the meaning given to it under clause 5.17.15.

"market responsive flow control pipeline" means a *pipeline* for which it is intended that the *injections* of gas on a day follow a *pipeline profile forecast* provided by a third party.

"market share", with respect to a *user*, who is a *REMCo member*, at a particular time, means the market share of the *user* in Western Australia determined on the basis of the percentage of *commissioned* and *decommissioned delivery points* for which the *user* is recorded in the *REMCo registry* as the *current user* in Western Australia as compared to the total number of *commissioned* and *decommissioned delivery points* recorded in the *REMCo registry* for Western Australia on the last day of each month; or

 "market share charge" means a variable fee set by *REMCo*, having regard to the principles set out in section 8 and being based upon *market share*, imposed upon each *user*, who is a *REMCo member*, for each *jurisdiction* in which the *user* operates under these rules.

"MCP(TSS(BS))" means the *marginal clearing price* for the total amount of *swing service* to be procured through the applicable *bid stack*.

"meter" means a meter used to measure the amount of gas supplied to a *delivery point* and includes any associated regulators, pipes, fittings, components, equipment or instruments.

"meter number" means the unique alpha-numeric identifier assigned to a meter by the *network operator* or *meter* manufacturer within each *jurisdiction*.

"meter reading" means reading a *meter* physically or by *telemetry.*

"meter reading data" means the data actually obtained by reading a *meter* physically or by *telemetry*, and includes:

(a) for a *basic meter* — the *index reading*; and

(b) for an *interval meter* — the *corrected volume* of gas delivered in each hour, and such other data as is required for *verification* by a *network operator* or provided by the *meter* in normal circumstances.

"meter reading route" means a route specified in a *meter reading schedule*.

"meter reading schedule" means a schedule provided by a *network operator* to a *user* under clause 4.2.3(1), as amended under clause 4.2.4.

"meter standing data", in relation to a *delivery point,* means the information set out in clause 2.4.3 for the *delivery point*.

"meter type" means whether a *meter* is a *basic meter* or an *interval meter*.

"metering data" means the information provided by a *network operator* to a *current user* under clause 4.4.9, to an *incoming user* under clause 4.4.10, and to *REMCo* under clause 4.4.11 for the applicable *meter type*.

"metering period", in relation to a *meter reading*, means the period between the current *meter reading* and the previous *meter reading*.

"MIRN" means the unique 10-digit numeric meter installation registration number that a *network operator* assigns to each *delivery point* in its *GDS*.

"MIRN checksum" means the single digit numeric identifier that is calculated as specified in Appendix 3 for a *MIRN*.

"MIRN database" means a database maintained by each *network operator* under clause 2.4.1 containing the *MIRN standing data* and information regarding each *delivery point* that is located in the *network operator's GDS*.

"MIRN discovery request" means a notice under clause 3.2.5 from a *user* to a *network operator*, requesting the *network operator* to provide the *MIRN standing data* for a *MIRN* or a *discovery address*.

"MIRN standing data", in relation to a *delivery point,* means the information set out in clause 2.4.1 for the *delivery point*.

"MIRN status" means (as applicable):

(a)   *commissioned*, *decommissioned* or *deregistered*.

{Note: The following table shows each *MIRN status* value and the corresponding *meter* status:}

MIRN status	Meter status
Commissioned	Commissioned and not disconnected or permanently removed
Decommissioned	Disconnected (temporary)
Deregistered	Permanently removed

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"miscellaneous reconciliation amount" or **"MRA"**, for a *user*, is a quantity of gas and is calculated under clause 5.11.5.

"monthly interval-meter load percentage" or **"MILP"** has the meaning given to it in clause **Error! Reference source not found.**.

"move in" is defined in clause 3.3.2.

"MSD database" means a database *maintained* by each *network operator* under clause 2.4.3 containing at least the *meter standing data* for each *delivery point* that is located in the *network operator's GDS*.

"multi-shipper allocation agreement", in Western Australia, has the meaning given to it under clause 5.19.1.

"multi-shipper allocation report" has the meaning given to it in clause 5.19.4.

"National Gas Access (Western Australia) Law" has the meaning given to it in the National Gas Access (WA) Act 2009 as amended from time to time.

> {Note: At the date of amendment of these Rules, "National Gas Access (Western Australia) Law" means the Western Australian National Gas Access Law text as applying as a law of Western Australia (section 7 National Gas Access (WA) Act 2009). The definition of "Western Australian National Gas Access Law text" is
> "the text that results from modifying the National Gas Law, as set out in the South Australian Act Schedule for the time being in force, to give effect to section 7A(3) and (4) and Schedule 1" (section 7 National Gas Access (WA) Act 2009). The National Gas Access (WA) Act 2009 thus applies the National Gas (South Australia) Act 2008 of South Australia as amended from time to time with particular amendments relevant to the Western Australian National Gas Access Law text.}

"negative assurance audit" means a review with the objective of enabling the *auditor* to state whether, on the basis of review procedures, which do not provide all the evidence that would be required in a standard audit, anything has come to the *auditor's* attention that indicates (as applicable):

(a) a *user's* non-compliance with section 7; or

(b) *REMCo's* non-compliance with section 7; or

(c) a *network operator's* non-compliance with section 7.

"network" means a distribution pipeline within the meaning of the *Gas Pipeline Access Law*.

"network information system" means the equipment, hardware and software (including the *network operator databases*) of the *network operator* used for interconnection to the REMCo's information system**.**

"network operator" means a *person* who holds a *distribution licence*.

"new connection" means the connection of a new *delivery point* to a *sub-network*

"new connection confirmation notice" means a notice under clause 3.1.4 from a *network operator* to *REMCo* advising *the registry entity* that a *delivery point* has been commissioned.

"nomination" for Western Australia, has the meaning given to that term in clause 5.6.2.

"nomination error", in Western Australia, means the nomination error of a *user* and is calculated under clause 5.15.7.

"nomination estimation methodology", has the meaning given to that term in Appendix 2 .

"non-temperature-sensitive base load" means the average daily energy consumption that is unaffected by temperature for a *basic-metered delivery point* as advised by the *network operator* from time to time under clause **Error! Reference source not found.**.

"normalisation factor" for a *basic-metered delivery point* is calculated under clause 5.10.12.

"notice" means a *notice* given under the Retail Market Rules in accordance with section 1.3.

"OffGAR" means the office of the Western Australian Independent Gas Pipelines Access Regulator established under section 27(1) of the *Gas Pipelines Access (Western Australia) Act 1998*.

"open", in relation to a *transaction*, means that the *transaction* has been lodged with *REMCo* or a *network operator* (as applicable), but has not been *cancelled* or completed.

"original net system load" is the value of net section load the first time the value is calculated under clause 5.11.1.

"park swing service" means a service whereby a *swing service provider* permits a *user* to 'park' (or notionally store) gas in a *pipeline* at a *gate point*, on the terms of a *swing service contract*. To avoid doubt, the provision of a park swing service by a *swing service provider* involves the supply of a gas capacity service and it does not involve the physical supply of gas.

"participant" means each of a *user* and a *network operator*.

"party" has the meaning given to that term in section 6.

"pending" means:

(a) in relation to a *requested transfer* - that *REMCo* has permitted the *requested transfer* under clause 3.3.22 or clause 3.3.24, as the case may be, and is waiting for the *network operator* to provide *metering data* that contains an *actual value*; and

(b) in relation to an *open error correction transaction* – that *REMCo* has permitted an *error correction notice* in respect of an incorrect *transfer* under clause 2.2.23(1).

Note that an *error correction notice* is *completed* in *the registry entity completes* immediately following it being permitted; the *pending* status is therefore not specifically recorded.

"permanent removal" means to permanently preclude gas being supplied at a *delivery point*.

"permanent removal confirmation notice" means a notice under clause 3.6.4 from a *network operator* to *REMCo* advising *REMCo* that a *delivery point* has been *permanently removed*.

"**permanent removal request**" means a notice under clause 3.6.1 from a *user* to a *network operator* requesting the *network operator* to *permanently remove* a *delivery point* specified in the notice.

"permitted down time" has the meaning given to that term in the *FRC Hub Conditions*.

"physical gate point" means a point defined as such in the relevant *pipeline Access Arrangement* and in any event is a point on the *pipeline* at which gas is withdrawn from the *pipeline* for *injection* into the *GDS*.

"physical gate point metering data" for a *physical gate point* means any two of the three data set out under clause 4.3.1.

"pipeline" means a pipeline for the transmission of gas to a *network*.

"pipeline corrected injections" has the meaning given to it under clause 5.10.6.

"pipeline injections" has the meaning given to it under clause 5.10.5.

"pipeline operator", in relation to a *GDS*, means the operator of a *pipeline* which is interconnected with the *GDS*.

"prescribed person" means a person who is a "prescribed person" under section 11ZOD(1)(b) of the *Energy Coordination Act* 1994; and

"pressure correction factor" means a numerical factor (reflecting pressure, temperature and elevation) which is held in the *MSD database* for a *meter* and can be used to convert an *uncorrected volume* reading from the *meter* into a *corrected volume* at "metric standard conditions" being a pressure of 101.325 kPa and a temperature of 15 ºC.

"previous user" means a *user*, who was recorded in the *REMCo registry* as the *current user*, immediately prior to the present *current user*.

"prior day" has the meaning given to it under clause 5.10.1.

"prior day data" has the meaning given to it under clause 5.10.1.

"proceeding" means the process followed by the *compliance panel* in making a determination in relation to a *referral*.

"process time" means the time and date a *notice* lodged with *the registry entity* or *the data estimation entity* was processed by *the registry entity* or *the data estimation entity*, as applicable.

"procurement confirmation" has the meaning given to it in clause 5.16.4.

"procurement instruction" has the meaning given to it in clause 5.16.1.

"procurement request" has the meaning given to it under clause 5.16.1.

"profile" means a profile provided by *REMCo* under clause 5.6.3(1)(b)(i) or determined by *REMCo* under clause 5.6.12(2).

"profiled pipeline nominations", in Western Australia, has the meaning given in clause 5.6.12(1).

"profiled sub-network nominations", in Western Australia, has the meaning given in clause 5.6.12(2).

"promptly", in relation to a *notice*, is defined in clause 1.3.3.

"proponent" means a person who lodges a *rule change request* under section 9.

"proposed rule change" means a proposed amendment to the rules specified in a rule change request.

"proxy ground temperature" is calculated under clause **Error! Reference source not found.**.

"readiness certificate" means the certificate issued by *REMCo* upon a person required to comply with the Retail Market Rules satisfaction of the *readiness criteria*.

"readiness criteria" means the criteria set out in the *Specification Pack [SP]*.

"readiness testing process" means the testing process set out in the *readiness criteria*.

"reading day number" means a number recorded in a *network operator's meter reading schedule* to denote which days during the calendar year a *meter* will be read by a *network operator*, and the *meter* reading frequency.

"reasonable and prudent person" means a person who exercises that degree of reasonableness, diligence, prudence and foresight that would reasonably and ordinarily be exercised by a skilled and experienced person doing a similar thing in similar circumstances and conditions in accordance with applicable *laws* and standards that are at least equivalent to practices and standards generally accepted within the gas industry in Australia.

"recalculated ratio" means the ratio recalculated under clause 5.6.3(3).

"recipient" means any or all of REMCo and each participant, pipeline operator and prescribed person.

"recipient users" has the meaning given to it under clause 5.22.

"recommendation report" means a report under section 9 from the *rule change committee* to *REMCo* recommending a *proposed rule change*.

"recommended rule change" means an amendment to the Retail Market Rules that is drafted by the *rule change committee* after its assessment of a *proposed rule change*

"reconnected", in relation to a *disconnected delivery point*, means that the *delivery point's* ability to flow gas has been restored, although there may be instances where the *meter* valve is left closed.

"reconnection notice" means a notice under clause 3.5.12 from a *user* to a *network operator* requesting *reconnection* of a *delivery point* specified in the notice.

"reconnection confirmation notice" means a notice under clause 3.5.16 from a *network operator* to *the registry entity* advising *the registry entity* that a *delivery point* has been *reconnected*.

"referral" means a matter referred to the *compliance panel* under section 6.

"registration fee" means, subject to section 8.1, a fixed charge not exceeding $10,000, imposed upon each *REMCo member* for becoming a member of *REMCo*.

"related body corporate" has the same meaning as it has under section 50 of the *Corporations Act* 2001 (Cth).

"related shipper" in relation to a *user* for a *sub-network*, means a *shipper* that, from time to time, *injects* gas into the *sub-network* on behalf of the *user*.

"REMCo" means the Retail Energy Market Company Limited (ACN 103 318 556).

"REMCo information system" means *REMCo's* equipment, hardware and software (including the *REMCo registry*) of *REMCo* used to perform its obligations under these rules.

"REMCo Constitution" means the constitution governing *REMCo*.

"REMCo member" means a person for the time admitted to membership of *REMCo* under the *REMCo Constitution*.

"REMCo registry" means the database *maintained* by *the registry entity* under clause 2.1.2(1), containing at least the *REMCo standing data* and the information referred to in clause 2.1.7(1).

"Specification Pack [SP]" means the suite of documents, as approved by *REMCo*, to support the operation of the Retail Market Rules.

"REMCo standing data", in relation to a *MIRN* or *delivery point*, means the information set out in clause 2.1.3(1) for the *MIRN* or *delivery point*.

"removal request" means a *notice* by a *pipeline operator* to *REMCo* requesting *REMCo* to remove the *swing service provider* or *shipper* from the *shipper register*.

"renomination", in Western Australia, has the meaning given to that term in clause 5.6.2.

"repay" in relation to *swing service* means:

(a) for *loan swing service* – to cause the gas which was notionally borrowed from a *pipeline* under the *loan swing service* to be repaid; and

(b) for *park swing service* – to cause the gas which was notionally stored in the *pipeline* under the *park swing service* to be retrieved.

To avoid doubt, the repayment of *swing service* does not involve the physical supply of gas.

"requested transfer" means a *transfer* requested for a *delivery point* by the lodgement of a *transfer request*.

"revised allocation instruction" has the meaning given to it in clause 5.4.4.

"revised estimate of unaccounted for gas" is calculated under clause 5.10.9.

"revised user's unaccounted for gas" means the amount calculated under clause 5.10.9.

"ROLR", in relation to a *delivery point*, means the supplier of last resort as defined in the Energy Supply Act 1994 (WA).

"ROLR administrator" means i the *Economic Regulation Authority*;

"ROLR event user" has the meaning given to that term in clause **3.4.1**(4).

"ROLR fee" means the last resort supply fee specified in the last resort supply plan.

"ROLR scheme" means:

> (i)   for the initial retailer of last resort, the supplier of last resort designated by the *Economic Regulation Authority*, and the last resort supply plan approved by the *Economic Regulation Authority* under section 60 of the *Energy Legislation Amendment Act 2003* (WA); and

> (ii)   for subsequent retailers of last resort, the supplier of last resort designated by the *Economic Regulation Authority*, and the last resort supply plan approved by the *Economic Regulation Authority* under section 11ZAG of the *Energy Coordination Act 1994* (WA).

"ROLR transfer day" means the *gas day* which commences at the *ROLR transfer time*.

"ROLR transfer time" means the time (which must be the start of a *gas day*) on which *MIRNs* are *transferred* under clause 3.4.1 from the *deregistered user* to the *ROLR*.

"rule 192(2) notice" has the meaning given to it in clause 5.4.9.

"rule change committee" means the committee established under section 9.

"rule change request" means a notice under section 9 from a *participant, pipeline operator*, *prescribed person* or *interested person* to *REMCo* requesting amendment to a Retail Market Rule specified in the request.

"SBRA" has the meaning given to it in clause 5.11.2.

"scheduled meter reading" means a *meter reading of* a *delivery point* that is scheduled to occur under the *network operator's meter reading schedule*.

"secondary recipient" means a person to whom a *recipient* discloses information.

"self-contracting user" means a *user* that withdraws gas from a *sub-network* for the sole purpose of supply to a *customer* that is either itself or a *related body corporate*.

"service fee" means, subject to section 8.1, the fixed charge not exceeding $15,000, for the ongoing operating costs of REMCo imposed upon each REMCo member.

"service order reference" means the unique identifier used to identify a *user's* service order as either:

(a) specified by a *user* under clauses 3.5.1, 3.5.13, or 3.6.1; or

(b) assigned by *REMCo* under rule 3.3.5(5).

"shipper" means a person that has a gas transportation agreement with a *pipeline operator* for the delivery of gas at a *gate point* to a *user*, and is not acting in its capacity as a *swing service provider* if it is also a *swing service provider*.

"shipper's amount", has the meaning given to it under clause 5.13.1.

"shipper's deemed injection" is defined in clause 5.12.1.

"shipper register" means the register of *shippers* and *swing service providers* established under rule 5.3.1 to 5.3.8.

"small use customer": in Western Australia — has the meaning given it under section 3 of the *Energy Coordination Act 1994*.

"special meter reading" means a *meter reading* undertaken other than under a *meter reading schedule*.

"specified price index" means the Consumer Price Index (All Groups, Eight Capital City) published by the Australian Bureau of Statistics or if that index is updated, that updated index converted by appropriate arithmetical adjustment to correspond to the previous reference base.

"SSP" means a swing service provider.

"SSPOLR" means a *swing service provider of last resort*.

"SSPOLR price" for a *SSPOLR* for a *pipeline* for a *sub-network* for a *gas day* for *park swing service* or *loan swing service*, as applicable, is the price specified for the *swing service* in the applicable *SSPUD*.

"SSPOLRUD" means the *Swing Service Provider of Last Resort Umbrella Deed* between *REMCo* and a *SSPOLR* for a *sub-network* on the terms and conditions set out in Appendix 8 or agreed between *REMCo* and a *SSPOLR* for a *sub-network*.

"SSPUD" means the *Swing Service Provision Umbrella Deed* on the terms and conditions set out in Appendix 7 .

"standing nomination", has the meaning given to it in clause 5.6.6.

"standing SSPOLR bid" means the bid deemed to have been lodged by a *SSPOLR* under clause 5.17.13(2).

"start of business" means 0800 hours in the relevant *jurisdiction*.

"State" means in Western Australia — the State of Western Australia;

"status report" has the meaning given to it in clause 5.16.8.

"street/suburb combination" means a combination of a:

(a) street name; and

(b) street type code; and

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(c) street suffix; and

(d) the suburb, place or locality in which the street is located; and

(e) *State*/Territory; and

(f) post code.

"street/suburb table" means a table of *street/suburb combinations* extracted from a *MIRN database* under clause 2.4.2.

"sub-network" means:

(a) a part of a *GDS* which a *network operator* identifies under clause 1.5.1 as a sub-network for contractual and operational purposes and which is listed in Appendix 1 ; or

(b) a *farm tap sub-network.*

"subscriber" means a person designated as such under clause 5.18.[To be confirmed]

"substituted value" means a value designated as such under clause 4.4.5.

"summed basic-meter reconciliation amount", for a *user*, is a quantity of gas and is calculated under clause 5.11.3.

"surplus" has the meaning given to it under clause 5.16.11.

"swing base amount" has the meaning given to it in clause 5.15.8.

"swing error" or **"SE"** has the meaning given to it under clause 5.15.9.

"swing service" in a *pipeline* for a *sub-network* for a *gas day*, is calculated under section 5.

"swing service amount" or **"SSA"** has the meaning given to it in clause 5.17.24.

"swing service causation compensation payment" has the meaning given to it in clause 5.22.

"swing service contract" means a contract between a *swing service provider* and a *user* which arises under a *SSPUD* when *REMCo* issues a *contract note* under clause 5.17.29.

"swing service fee" or **"FSS"** has the meaning given to it in clause 5.17.23.

"swing service provider" means, for a *gate point*, a person who has a *GBO identification* as a *swing service provider* and either:

(a) has a *transmission contract* in the *pipeline*; or

(b) has an *agreement* with a *pipeline operator* for the provision of either or both of *park swing service* and *loan swing service* in the *pipeline* at the *gate point*.

"swing service quantity" has the meaning given to it in clause 5.19.2.

"swing service repayment quantity" or "**SRQ**" has the meaning given to it under clause 5.17.25.

"system down time" has the meaning given to it in clause 5.27.1.

"TANUSA" means the total of all *users' adjusted non-user-specific amounts* for the *pipeline* for the *gas day* under clause 5.16.13.

"telemetry" means the communication equipment used for transmission of data collected from *meters* to a *network operator's* central data management system and typically encompasses modems, telecom landline (which may be dedicated or part of the PSTN network) or radio transceivers (which may be in the form of a dedicated radio network, GSM, GPRS or satellite telephony).

"temperature sensitivity heating rate" means the rate at which the energy consumption for a *delivery point* varies with change in the *heating degree day* value as advised by the *network operator* from time to time under clause **Error! Reference source not found.**.

"T$_{max}$" has the meaning given to it in clause **Error! Reference source not found.**.

"T$_{min}$" has the meaning given to it in clause **Error! Reference source not found.**.

"total basic-meter reconciliation amount" or "**TBRA"**, for a *user*, is a quantity of gas and is calculated under clause 5.11.5.

"total basic-meter withdrawal reconciliation amount" or "**TBWRA",** for a *user*, is a quantity of gas and is calculated under clause 5.11.7.

"total corrected injections" for a *sub-network* is calculated under clause 5.10.6.

"total delta basic-meter reconciliation amount", for a *user*, is a quantity of gas and is calculated under clause 5.11.11.

"total delta pipeline injection" or **"TΔPI"**, for a *gate point*, is a quantity of gas and is calculated under clause 5.11.10.

"total interval-meter reconciliation amount" or "**TIRA"**, for a *user*, is a quantity of gas and is calculated under clause 5.11.16.

"total non-user specific swing service cost" has the meaning given to it under clause 5.17.18.

 "total (pre-procurement) swing service" has the meaning given to it under clause 5.15.11.

"total reconciliation amount" for a *user*, is a quantity of gas and is calculated under clause 5.11.16.

 "total sun hours" is calculated under clause **Error! Reference source not found.**.

"total swing service cost" is calculated under clause 5.17.17.

"total user-specific swing service cost" is calculated under clause 5.17.19.

 "transaction" means the process initiated by the lodgement of a *notice* with *REMCo* under these rules, which if completed, will result in an amendment to the *REMCo standing data*

"transfer" means the transfer under the Retail Market Rules of the responsibility for gas delivery to a *delivery point* from the *current user* to an *incoming user*.

"transfer confirmation" means a notice under clause 3.3.26 that the *transfer* of the *delivery point* specified in the notice has occurred.

"transfer day" means the *gas day* commencing at the *transfer time*.

"transfer objection" means (as applicable) a notice under clause 3.3.10(2) from a *network operator* or under clause 3.3.11(3) from a *ROLR* objecting to a *requested transfer*.

"transfer objection resolution period" means (as applicable):

(a) if a *transfer objection* has been lodged under clause 3.3.10(2) or clause 3.3.11(3) - the period ending when the time allowed for lodging a *transfer objection withdrawal notice* under clause 3.3.15 expires; or

(b) if a *transfer objection* has not been lodged under clause 3.3.10(2) or clause 3.3.11(3) - the period ending when the time allowed for lodging a *transfer objection* under clause 3.3.10(1) or 3.3.11(2) expires.

"transfer objection withdrawal notice" means a notice under clause 3.3.15 from a *participant* to *REMCo* withdrawing an *open transfer objection* for a *delivery point* specified in the notice .

"transfer request" means a notice under clause 3.3.5 from an *incoming user* to *REMCo* requesting *REMCo* to *transfer* gas deliveries at a *delivery point* specified in the request to the *incoming user*.

"transfer time" means the start of the *gas day*;

    (a) during which a <u>*basic* meter reading</u> that generates an *actual value* for a basic metered *delivery point* for which a *transfer* is *pending*, <u>was undertaken</u>, or

    (b) that an incoming user has specified as the earliest transfer day for an interval metered delivery point.

"transfer withdrawal notice" means a notice under clause 3.3.19(4) from an *incoming user* to *REMCo* withdrawing an *open transfer request* for a *delivery point* specified in the notice.

"transferring customer" means the *customer* located at the *delivery point* specified in a *transfer request*.

"transmission contract" means a contract between a *pipeline operator* and *shipper* for the transmission of gas through a *pipeline*.

"TSS(BS)" means the total amount of *swing service* to be procured through the applicable *bid stack* for the *pipeline* for the *gas day*, calculated under clause 5.16.16.

"TSS(BS) bid" has the meaning given to it under clause 5.17.16.

"uncovered sub-network" means a *sub-network* which is not:

(a) a "covered pipeline" as defined in the *Gas Pipelines Access Law*; or

(b) subject to any other third party access regime under a *law* or under an instrument having effect under a *law*.

"user" means an entity that has a *haulage contract* for the transport of gas through a *sub-network* under the Retail Market Rules.

"user's amount", has the meaning given to it in clause 5.6.7.

"user-specific swing error" has the meaning given to it in clause 5.15.10.

"user's deemed withdrawals" or **"UDW"** for a *user* for a *pipeline* for a *sub-network* for a *gas day* is calculated under clauses 5.12.3 and 5.12.4.

"user's estimated basic-metered withdrawals" or **"UEBW"** is calculated under clause 5.10.14.

"user's estimated total withdrawals" for a *user* for a *sub-network* for a *gas day* is calculated under clause 5.10.15.

"user's gas injections" has the meaning as given to it in clause 5.4.1.

"user's interval-metered withdrawals" or **"UIW"** is calculated under clause 5.10.8.

"user's pipeline nomination amount", in Western Australia, for a *user* for a *pipeline* for a *sub-network* for a *gas day* is calculated under clauses 5.6.8 and 5.6.9.

"user's (pre-procurement) socialised swing service" has the meaning given to it in clause 5.15.15.

"user's reconciliation adjustment amount" for a user, is a quantity of gas, and is calculated under clause 5.11.18.

"user's total nomination amount", for a *user* for a *pipeline* for a *sub-network* for a *gas day* is calculated under clause 5.6.11.

"user's total (pre-procurement) swing service" has the meaning given to it in clause 5.15.11.

"UUAFG" is defined in clause 5.10.3.

"user's unaccounted for gas reconciliation amount" or **"UUAFGRA"**, for a *user*, is a quantity of gas and is calculated under clause 5.11.14.

"validated procurement request" has the meaning given to it in clause 5.16.7.

"verification" means the process undertaken by a *network operator* in accordance with the verification guidelines contained in Appendix 2 to ensure the accuracy of the *metering data*.

1.1.3. Interpretation [RMR][3]

(1) In this document, unless the contrary intention appears:

(a) a reference to:

(i) one gender includes any other gender; and

(ii) the singular includes the plural and the plural includes the singular; and

(iii) an officer or body of persons includes any other officer or body for the time being exercising the powers or performing the functions of that officer or body; and

(iv) these clauses or any other instrument includes any variation or replacement of any of them; and

(v) a reference to a *law* includes any amendment or re-enactment of it that is for the time being in force, and includes all *laws* made under it from time to time; and

(vi) any statute includes that statute as amended or re-enacted from time to time and any statute enacted in replacement of it; and

(vii) **"writing"** or **"written"** includes communication by facsimile and any other electronic means or format in accordance with this document and the Interface Control Document [ICD]; and

(viii) **"under"** includes "by", "by virtue of", "pursuant to" and "in accordance with"; and

(ix) **"day"** means a calendar day; and

(x) a quantity of gas is to an energy quantity (expressed in whole MJ), rather than a volumetric or other quantity; and

(xi) **"person"** includes a public body, company, or association or body of persons, corporate or unincorporated; and

(xii) a person includes a reference to the person's personal representatives, executors, administrators, successors and permitted assigns; and

(b) all monetary amounts are in Australian dollars and are exclusive of GST; and

(c) headings are for convenience only and do not affect the interpretation, or form part of, this document; and

(d) **"copy"** includes a facsimile copy, photocopy or electronic copy; and

(e) **"including"** and similar expressions are not words of limitation; and

(f) where a word or expression is given a particular meaning, other parts of speech and grammatical forms of that words or expression have a corresponding meaning; and

(g) where italic typeface has been applied to some words and expressions, it is solely to indicate that those words or phrases may be defined in clause 1.1.2 or elsewhere, and in interpreting this document, the fact that italic typeface has or has not been applied to a word or expression is to be disregarded; and

(h) where information in this document is set out in braces (namely "{" and "}"), whether or not preceded by the expression "Note", "Outline" or "Example", the information:

> (i) is provided for information only and does not form part of this document; and
>
> (ii) is to be disregarded in interpreting this document; and
>
> (iii) might not reflect amendments to this document.

(2) In this document:

(a) a reference to a *meter reading* "of a *delivery point*" is a reference to a *meter reading* of the *meter* at the *delivery point*;

(b) a reference to the *current user* "for" a delivery point is a reference to the *user* who is recorded in the *REMCo registry* as the *user* responsible for gas delivery to the *delivery point*.

(c) a reference to the *network operator* "for" a *delivery point* is a reference to the *network operator* of the *GDS* in which the *delivery point* is located;

(d) when discussing a *delivery point*, a reference to a *MIRN* is a reference to the *MIRN* for the *delivery point*;

(e) when discussing a *MIRN*, a reference to a *delivery point* is a reference to the *delivery point* identified by the *MIRN*;

(f) when discussing a *delivery point* or a *MIRN*, a reference:

> (i) to "the *user*" or "the *current user*" is a reference to the *current user* for the *delivery point*; and
>
> (ii) to "the *incoming user*" is a reference to the *incoming user* for the *delivery point*; and
>
> (iii) to "the *meter*" is a reference to the *meter* which measures gas withdrawals at the *delivery point*; and
>
> (iv) to "the *sub-network*" is a reference to the *sub-network* in which the *delivery point* is located; and
>
> (v) to "the *network operator*" is a reference to the *network operator* for the *sub-network* in which the *delivery point* is located; and
>
> (vi) to "the *MIRN status*" is a reference to the *delivery point's MIRN status*; and
>
> (vii) to "the *previous user*" is a reference to the *user* that was the *current user* for the *delivery point* before a *transfer*; and

(g) when discussing a *notice*, a reference:

    (i) to "the *user"* is a reference to the *current user* for the *delivery point* or *MIRN* specified in the *notice*; and

    (ii) to "the *delivery point*" is a reference to the *delivery point* identified by the *MIRN* specified in the *notice*; and

    (iii) to "the *MIRN*" is a reference to the *MIRN* identifying the *delivery point* to which the *notice* relates; and

    (iv) to "the *current user*" is a reference to the *current user* for the *delivery point* or *MIRN* specified in the *notice*; and

    (v) to "the *network operator*" is a reference to the *network operator* for the *delivery point* or *MIRN* specified in the *notice* is located; and

    (vi) to "the *discovery address*" is to the *discovery address* specified in the *notice*; and

    (vii) to "the MIRN status" is to the MIRN status of the MIRN specified in the notice; and

    (viii) to the "*previous user*" is to the *user* who was the *current user* for the *delivery point* identified by the *MIRN* specified in the *notice* before a *transfer* takes effect for the *delivery point*.

(h) when discussing a *gate point*, a reference to:

    (i) the *pipeline* for the *gate point* is reference to the *pipeline* that interconnects with a *sub-network* at the *gate point*; and

    (ii) the *pipeline operator* for the *gate point* is a reference to the *pipeline operator* of the *pipeline* that interconnects with a *sub-network* at the *gate point*; and

    (iii) the *sub-network* for the *gate point* is a reference to the *sub-network* that interconnects with a *pipeline* at the *gate point*; and

    (iv) the *network operator* for the *gate point* is a reference to the *network operator* for the *sub-network* that interconnects with a *pipeline* at the *gate point*; and

    (v) a *user* for the *gate point* is a reference to a *user* for the *sub-network* that interconnects with a *pipeline* at the *gate point*; and

    (vi) a *related shipper* for the *gate point* is a reference to a *shipper* on the *pipeline* that interconnects with a *sub-network* at the *gate point* that, from time to time *injects* gas into the *sub-network* on behalf of a *user* for the *sub-network*; and

(i) when discussing a *sub-network*, a reference to a *user* for the *sub-network* is a reference to:

    (i) each *user* that is the *current user* for at least one *delivery point* in the *sub-network*; or

    (ii) each *user* that was previously, but is no longer, the *current user* for at least one *delivery point* in the *sub-network*, until such time as *REMCo* records a *user's GBO identification* as "deregistered" in the *REMCo registry* under clause 2.1.7(10).

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(3) In this document, a reference to "gas day D" is a reference to whichever gas day is designated by the clause as such, and references to "gas day D-1" and "gas day D+1" are, respectively, references to the gas day before gas day D and the gas day after gas day D, respectively, and so on.

1.1.4. Delegation [RMR][4]

REMCo may delegate any one or more of the powers and functions conferred on it by the Retail Market Rules to one or more committees consisting of any number of either or both of *REMCo* directors and other persons, as *REMCo* thinks fit.

1.1.5. Meter readings deemed to occur at the start of the gas day [RMR][5]

A *meter reading* of a *delivery point* taken at any time in a *gas day* is deemed to be a *meter reading* of the *delivery point* at the start of the *gas day*.

1.1.6. Calculations, rounding and measurements [RMR][6]

(1) For the purposes of this document, one hundred cubic feet equals 2.832 cubic metres.

(2) *REMCo* and each *participant*, *pipeline operator* and *prescribed person* must comply with Appendix 5 in respect of calculations, rounding and units under this document.

1.1.7. Time under the Retail Market Rules [RMR][6A]

(1) The *REMCo information system,* and date and time stamp *transactions* under the Retail Market Rules, including the *process time*, shall be operated on the basis of market standard time, which is Greenwich Mean Time plus 10 hours.

(2) A reference in these rules:

(a) as to **"gas day"**:

(i) a reference in these rules to a day or date is a reference to the *gas day* commencing on the day or date referred to, and ending on the following day or date; and

(ii) references to months, quarters and years are to be given a corresponding meaning; and

(iii) in reckoning periods of months, quarters and years, the 6 or 8 hour offset (as applicable in each *jurisdiction*) between months, quarters and years reckoned under rule 6A(2)(a)(ii) and calendar months, quarters and years, is to be disregarded; and

(b) to **"0000 hours"** on a day is to midnight at the start of the day in the relevant *jurisdiction*; and

(c) to **"2400 hours"** on a day is to midnight at the end of the day in the relevant *jurisdiction*; and

(d) to a time or (including *start of business* or *close of business*) under these rules, is a reference to the local time or *business day* in the relevant *jurisdiction*, being:

(i) in Western Australia — Western Standard Time (being Greenwich Mean Time plus 8 hours); and

1.1.8. Distribution tariff codes [RMR 6B]

A *network operator* must publish, including any amendments, and provide on request, the *distribution tariff codes* applying in *each* of the *network operator's sub-networks*.

1.2. **Compliance with obligations under these rules**

1.2.1. Obligation to act as a reasonable and prudent person [RMR][7]

REMCo requirement. The [SIA] and [SOSA] govern the matters referred to in this clause.

1.3. **Notices**

1.3.1. Requirements of effective notices and nominated contact details [RMR][8]

(1) Subject to this section, 1.3, a *notice* or other communication connected with this document has no legal effect unless it is in writing and either sent in the format required under clause 1.3.2, or if no format is specified, given as follows::

(a) sent by electronic mail transmission or any other method of electronic communication to the nominated electronic address of the addressee; or,

(b) sent by facsimile to the nominated facsimile number of the addressee; or

(c) delivered by hand to the nominated office of the addressee; or

(d) sent by post to the nominated postal address of the addressee.

(2) Each person required to have a *GBO identification* under clause 2.1.7(2), must prior to being issued a GBO identification under clause 2.1.7(2)(b), provide *REMCo* with their nominated contact details for at least the type of address and contact details referred to in clause 1.3.1(1) (or such address and contact details as *REMCo* may request from time to time), and keep *REMCo* and all other persons with a *GBO identification*, informed of any changes to these details as may occur from time to time.

(3) In an emergency, or other situation where a *reasonable and prudent person* would consider itself justified in departing from the requirements of clause 1.3.1(1), a *person* may give a notice other than in accordance with rule 1.3.1(1), but if so the *person* must, as soon as practicable, confirm the notice in writing and by a method prescribed by rules 1.3.1(1)(a) to 1.3.1(1)(d).

1.3.2. Format of notices [RMR][9]

Notices given under these rules are to be in accordance with the format specified in the "Interface Control Document" as contained in the *Specification Pack [SP]*.

1.3.3. Delivery times for notices [RMR][11]

(1) If a person (**"sender"**) is required under the Retail Market Rules to give a *notice* **"immediately"** in:

(a) aseXML format — then subject to clause 1.3.3(3), the *sender* must ensure that the *notice* is despatched from the *sender's* gateway within a time consistent with a "medium priority transaction" as defined in section 2.5 of the "FRC B2M-B2B Hub System Specifications" in the *Specification Pack [SP]*; or

(b) any other format — the *sender* must ensure that the *notice* is delivered to the recipient within 4.5 hours.

(2) If a person (**"sender"**) is required under the Retail Market Rules to give a *notice* **"promptly"** in:

(a) aseXML format — then subject to rule 1.3.3(3), it must ensure that the *notice* is despatched from the *sender's* gateway within a time consistent with a "low priority transaction" as that term is defined in section 2.5 of the "FRC B2M-B2B Hub System Specifications" in the *Specification Pack [SP]*; or

(b) any other format — the *sender* must ensure that the *notice* is delivered to the recipient by *close of business* on the next *business day*.

(3) A *sender's* obligations under clause 1.3.3(1)(a) and 1.3.3(1)(b) do not apply during *permitted down time*.

(4) During the 12 months after the *go-live date* (**"initial period"**), *REMCo* may from time to time in its discretion, after consulting with each *sender,* specify one or more longer time periods under rule 1.3.3(1) or 1.3.3(2) , but no longer time period specified under this rule 1.3.3(4) applies after the end of the *initial period*.

1.3.4. Notices by facsimile, hand delivery or post [RMR][12]

(1) Any *notice* given in accordance with rules 1.3.1(1)(b) to 1.3.1(1)(d) will be deemed to have been received:

(a) subject to rule 1.3.4(2), if transmitted by facsimile or delivered by hand before *close of business* on a *business day*, at the time of transmission or on the day of delivery (as applicable), or otherwise at *the start of business* on the next *business day*; or

if sent by mail within Australia, on the second *business day* after posting (being, in each case, the time of day at the intended place of receipt of the *notice*),

(2) A facsimile is not deemed given and received unless:

(a) at the conclusion of the transmission the sender's facsimile machine issues a transmission report which indicates that the relevant number of pages comprised in the *notice* have been sent; and

(b) if it is not received in full and in legible form — the addressee notifies the sender of that fact within 3 hours after conclusion of the transmission or by 12 noon on the *business day* on which it would otherwise be deemed given and received, whichever is the later.

1.3.5. Notices by email [RMR][12A]

(1) According to the RMR Rules, a *notice* sent by email is neither given nor received under the RMR rules until the person sending the email (**"sender"**) receives an *automated response message* for the email from the person to whom the email was addressed (**"addressee"**).

(2) The *GRMS Operations Staff* will use the standard email delivery 'automated return receipt' technology available on their standard corporate email system to provide email responses.

1.3.6. REMCo may lodge and accept notices on behalf of a self-contracting user [RMR][13]

No [BS] requirement. Refer to [RMR] for context only.

1.4. **These rules and other instruments**

No [BS] requirement. Refer to [RMR] for context only.

1.5. **Appendices**

1.5.1. Identification of sub-networks, gas zones and gate points [RMR][15]

(1) A *network operator* must code each *gas zone* and each *gate point* in its *sub-network* under Appendix 1 .

(2) Each *sub-network* and each *gate point* as at the *go-live date* is listed with its identifying code in Appendix 1 .

(3) A *network operator*, acting as a *reasonable and prudent person*, may propose to establish a new *sub-network* that is not listed with an identifying code in Appendix 1 that is applicable to the *jurisdiction* in which the *network operator's GDS* resides, and if it does so, it must notify *the RMA* of the proposed new sub-network.

(4) Upon receipt of notification under clause 1.5.1(3):

(a) *the RMA* must

(i) verify the establishment of the new *sub-network*, and, if satisfied with its verification, must publish to each *participant, pipeline operator* and *prescribed person* an update to the relevant section of Appendix 1   specifying the new *sub-network* and its identifying code and any applicable new *gate point* and its code.

(ii) notify *the GRMS Operations staff* of the proposed new *sub-network* by means of a *notice:*

Notification format defined in [ICD: NOT-SNC 'Notice of new sub-network code']

(5) Upon receipt of notification under 1.5.1(4)(a)(ii), *the GRMS Operations staff* must update *the registry entity* and *the data estimation entity* as appropriate.

1.5.2. Rule change procedure does not apply to amending and updating Appendices [RMR][16]

(1) An amendment to:

(a) Appendix 1 ; and

(b) Appendix 2 (excluding sub-appendix 2.3); and

(c) Appendix 7 ; and

(d) Appendix 8 ; and

(e) Appendix 11,

is not a rule change under section 9 and section 9 does not apply to the amendment.

(2) For the avoidance of doubt, sub-appendix 2.3 is subject to section 9.

(3) Except as otherwise provided in this document and subject to clause 1.5.2(4), a *network operator* may amend those sections of Appendix 2 that are applicable to the *jurisdiction* in which the *network operator's GDS* resides.

(4) Before any amendment to Appendix 2 takes effect, the *network operator* must:

(a) consult each *user* and *REMCo* in relation to the amendment; and

(b) take into consideration any reasonable objection to, or request to alter, the proposed amendment, from *users* or *REMCo*; and

(c) notify each *participant* and *REMCo* (in such format as the *network operator* and *REMCo* may agree) of the amended Appendix at least 20 *business days* prior to the updated Appendix taking effect.

(d) Before any amendment to Appendix 7 or Appendix 8 ; takes effect, *REMCo* must:

(e) consult each *user* in relation to the amendment; and

(f) receive unanimous agreement from all *users* to the proposed amendment; and

(g) provide *notice* to each *participant* (in such format as *REMCo* reasonably may determine) of the amended Appendix at least 20 *business days* prior to the updated Appendix taking effect.

1.6. **Review of rules**

1.6.1. Review of the rules [RMR][17]

No [BS] requirement. Refer to [RMR] for context only.

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2. The Databases

2.1. **The REMCO Registry**

2.1.1. REMCo registry is deemed to be correct [RMR][18]

(1) If there is an inconsistency between an item of the *REMCo standing data* for a *delivery point* and an item in another database, then for the purposes of this document and in the absence of manifest error the *REMCo standing data* is deemed to be correct.

(2) Nothing in clause 2.1.1(1) limit *participants'* obligations to lodge a *data change notice* under clause 2.2.4, or an *error correction notice* under clause 2.2.9 with REMCo

(3) <No REMCo Requirement> Nothing in clause 2.1.1(1) limits *participants'* ability to enter into agreements to address or correct errors or inaccuracies in the *REMCo standing data* for a *delivery point*, subject to *participants* ensuring they comply with their obligation under clause 2.2.3.

2.1.2. Maintenance and administration of the REMCo registry [RMR][19]

(1) *The GRMS Operations staff* must *maintain* and administer *the REMCo registry*, which shall be held in *the registry entity*.

(2) *The registry entity* will include all *delivery points* in each *jurisdiction*.

2.1.3. REMCo standing data [RMR][20]

(1) *The GRMS Operations staff* must ensure that *the registry entity* includes at least the following *accurate* information in respect of each *delivery point* under this document from the sources listed below:

Information	Source
(a) The *MIRN*; and	*network operator*
(b) the *MIRN status*; and	*network operator*
(c) the first date on which the *MIRN* became *commissioned*; and	*REMCo (the registry entity),* based on the date notified to it by the *network operator* under clause 3.1.4.
(d) the GBO-Id of the *current user*; and	In the case of a *new connection —* *network operator.* In all other cases — *REMCo (the registry entity).*
(e) the GBO-ID of the *ROLR*; and	*REMCo (the registry entity)* (based on the market jurisdiction)
(f) the GBO-ID of the *network operator*; and	*network operator*
(g) whether the *delivery point* is equipped with an *interval meter* or a *basic meter*; and	*network operator*

Information	Source
(h) the *gas zone*; and	*network operator*
(i) whether or not the *customer* at the *delivery point* is a *small use customer*	*REMCo (the registry entity, and the data estimation entity)*(under clause 8.4.1)
(j) There is no (j) and	*REMCo (the registry entity, and the data estimation entity)*(under clause 8.4.3)
(k) There is no (k)	
(l) There is no (l)	
(m) the *last date of modification*; and	*REMCo (the registry entity)*
(n) the last person to initiate a modification to *the registry entity* for the *MIRN*; and	*REMCo (the registry entity)*

(2) **"source"** means the person responsible for providing the information to *REMCo*, not necessarily the person who is the originating source of the information.

Note that :

(a) If a *jurisdiction* does not have a *ROLR scheme*, then the item of *REMCo standing data* in rule 2.1.3(1)(e) will be a dummy *GBO identification* for that *jurisdiction*, which shall be provided by *REMCo* to the *GRMS staff* within the timeframe defined in 2.1.7(2)(c) for other *GBO identifications.*

(b) Items 2.1.3(1)(i) and 2.1.3(1)(j) shall be stored within, and transported by, *the registry entity* and *the data estimation entity* as identical data items, although their definition in business terms is different.

2.1.4. Current user remains financially responsible for a delivery point [RMR][21]

A *user* remains recorded in *the registry entity* as the *current user* for a *delivery point* until such time as:

(1) the *MIRN status* is *deregistered*; or

(2) a *transfer* occurs in respect of the *delivery point*; or

(3) *the registry entity* accepts an *error correction transaction* in respect of the *delivery point*.

2.1.5. FRC Hub Certification [RMR][21A]

No [BS] requirement. Refer to [RMR] for context only.

2.1.6. Readiness Certification [RMR][21B]

No [BS] requirement. Refer to [RMR] for context only.

2.1.7. GBO identification [RMR][22]

(1) *REMCo* must have a single *GBO identification* that it uses in both *jurisdictions*

(2) *The RMA* must upon issuing a *FRC Hub compliance certificate* under clause 2.1.5 and a *readiness certificate* under clause 2.1.6:

(a) *notify* each person required to have a *GBO identification* under clause 2.1.7(2), of *REMCo's GBO identification;* and

(b) determine and issue a *GBO identification* for the person for each capacity in which it operates under the Retail Market Rules; and

(c) communicate, by means of a *notice* at least 3 months prior to *go-live,* each *GBO identification* to the *GRMS operations staff,* who must on receipt of such notice, record the status of the *GBO identification* issued under clause 2.1.7(2)(b) as "active" in *the REMCo registry*; and

> *Notification format defined in [ICD: NOT-GBO 'Notice of REMCo GBO Identification']*

(d) within 1 *business day* of issuing a *GBO identification* under clause 2.1.7(2)(b), notify, by means of a *notice*, all other persons with a *GBO identification* under the Retail Market Rules of the *GBO identification* for the new person and provide them with the information set out in clauses 2.1.7(4)(a) to 2.1.7(4)(c).

(3) *The RMA* must ensure that each person required to have a *GBO identification* under the Retail Market Rules has a different *GBO identification* for each capacity in which it operates under the Retail Market Rules but the same *GBO identification* if it operates in the same capacity in both *jurisdictions,* including for example:

(a) a *user* that is also a *ROLR* must have a different *GBO identification* for its role as a *user* and its role as a *ROLR*; and

(b) a *shipper* that has contracts for the transportation of gas through more than one *pipeline* must have a different *GBO identification* as a *shipper* on each *pipeline*; and

(c) a *pipeline operator* that operates as a *pipeline operator* and a *SSPOLR* must have a *GBO identification* for each role.

> Note that a *self contracting user* shall be defined with the same role type as a *user* within *the registry entity.*

(4) *The RMA* must provide *accurate* information in respect of each *GBO identification* issued by *the RMA* under clause 2.1.7(2)(b) to the *GRMS operations staff,* who in turn must ensure that this information is held in *the registry entity*. At least the following information shall be held:

(a) the name of the person; and

(b) the capacity in which the person operates in respect of the *GBO identification*; and

(c) the status of the *GBO identification*, being either "active", "suspended" or "deregistered"; and

(d) the person's nominated contact details as set out in clause 1.3.1(1); and

(e) the effective date of any change to the information set out in clauses 2.1.7(4)(a) to 2.1.7(4)(c)**.**

(5) Upon any detail changing under clause 2.1.7(4), *the RMA* must notify the *GRMS Operations staff. In turn, the GRMS operations staff* must, within 24 hours:

(a) update *the registry entity*; and

(b) notify, by means of a *notice*, all other persons required to have a *GBO identification* that an amendment has been made and provide them with the updated information as set out in clauses 2.1.7(4)(a) to 2.1.7(4)(e).

> *Notification format defined in [ICD: GBO-CHNG 'Notice of change to GBO information']*

(6) *The RMA* must notify the *GRMS operations staff* by means of a *notice* that a person's *GBO identification* is to be recorded as "suspended" within *the registry entity:*

(a) if the person is a *REMCo member* — upon the person's membership ceasing under the *REMCo Constitution*; and

(b) if the person is a party to an agreement entered into under the Retail Market Rules which provides for the person's *GBO identification* to be recorded as "suspended" — in accordance with the terms of the agreement.

> *Notification format defined in [ICD: GBO-STATUS-CHNG 'Notice of change to GBO Status']*
>
> The notice must include the date on which the change in *GBO identification* status is to be amended. Upon receipt of such notice, the *GRMS Operations staff* must update *the registry entity* such that the *GBO identification* is recorded as "suspended" from the effective date.

(7) The consequences of a person's *GBO identification* being recorded as "suspended" in *the registry entity* are:

(a) the person must continue to comply with its obligations under the Retail Market Rules; and

(b) for a *user* — without limiting clause 2.1.7(7)(a), the *user* is not entitled to exercise any rights granted to it under section 2, section 3, or section 9; and

(c) for a *swing service provider* — without limiting clause 2.1.7(7)(a), the *swing service provider* is not entitled to exercise its rights under clause 5.17.4;

(d) for a *network operator* — without limiting clause 2.1.7(7)(a), the *network operator* is not entitled to exercise any rights granted to it under section 9.

(8) To avoid doubt, recording a person's *GBO identification* as "suspended" in *the registry entity* has no effect on the operation of section 5.

(9) If a person was "suspended" under clause 2.1.7(6)(b), then when the agreement provides that the person's *GBO identification* should be marked as "active", *the RMA* must notify the *GRMS operations staff* by means of a *notice* that a person's *GBO identification* is to be recorded as "active" within *the registry entity:*

> *Notification format defined in [ICD: GBO-STATUS-CHNG 'Notice of change to GBO Status']*
>
> The notice must include the date on which the change in GBO identification status is to be amended. Upon receipt of such notice, the GRMS Operations staff must update the registry entity such that the GBO identification is recorded as "suspended" from the effective date.

(10) *The RMA* must notify the *GRMS operations staff* by means of a *notice* that a person's *GBO identification* is to be recorded as "deregistered" within *the registry entity:*

(a) if the person is no longer required to comply with the Retail Market Rules — upon *the RMA* being notified that the person is no longer required to comply with these rules;

(b) if the person is no longer required to be bound by the Retail Market Rules through an agreement with *the RMA* — upon that person ceasing to be bound by the agreement with *the RMA*; and

(c) if the person ceases to act in the capacity under the Retail Market Rules to which the *GBO identification* relates — upon that person ceasing to act in that capacity; and

(d) upon the person exiting the market under section 8.6.

(11) The consequence of a person's *GBO identification* being recorded as "deregistered" in *the registry entity* is that the person is no longer required to comply with the Retail Market Rules and is not entitled to accrue any rights under the Retail Market Rules.

Note that *participants* details shall not be removed from *the registry entity*, rather, one of the following statuses shall be associated with each *participant* at any one time:

(i) active

(ii) suspended

(iii) deregistered

2.1.8. REMCo to provide bulk REMCo standing data [RMR][23]

The purpose of this clause is to allow *REMCo* and *participants* to compare their databases at a particular time.

(1) In this clause, "**Bulk REMCo standing data**":

(a) in relation to a *network operator* — means the *REMCo standing data* for every *delivery point* in the *network operator's GDS*; and

(b) in relation to a *user* — means the *REMCo standing data* for every *delivery point* for which the *user* is the *current user*.

(2) A *participant* may request the *GRMS Operations staff*, by means of a *notice*, to provide the *participant* with *bulk REMCo standing data* "**Bulk REMCo standing data request**".

Notification format defined in [ICD: REQ-BSD: 'Request for Bulk REMCo Standing Data']

(3) A *bulk REMCo standing data request* is valid only if the *participant* requesting the *bulk REMCo standing data* has an *active GBO identification*.

(4) Upon receipt of a *bulk REMCo standing data request* that is not valid, the *GRMS Operations staff* must *immediately notify* the *participant* that lodged the *bulk REMCo standing data request,* by means of a *notice*, that the *bulk REMCo standing data request* has been rejected and provide the reason why the *bulk REMCo standing data request* is not valid.

Notification format defined in [ICD: NOT-BSD-REJ: 'Notification that Request for Bulk REMCo Standing Data is rejected']

(5) If the request is valid, subject to clause 2.1.8(6) the *GRMS Operations staff* must provide *bulk REMCo standing data*:

(a) to each *participant* on a quarterly basis; and

(b) subject to clause 2.1.8(7), to a *participant* upon receiving a valid *bulk REMCo standing data request;* and

(c) *the* ROLR *under rule 3.4.1(5) within the time required by that rule.*

(6) *The GRMS Operations staff* must:

(a) notify the *participant*, by means of a *notice*, of the time and date on which it will generate *bulk REMCo standing data*, which must be at least 5 *business days* after the date of notification under this clause 2.1.8(6)(a); and

> *Notification format defined in [ICD: NOT-SDGEN Notice of the date and time of REMCo Standing Data generation']*

(b) generate the *bulk REMCo standing data* at the time and on the date notified under clause 2.1.8(6)(a); and

(c) provide the *bulk REMCo standing data*, by means of *a bulk electronic file*, to the *participant* within 2 *business days* after the date of generation under clause 2.1.8(6)(b).

> *Notification format defined in [ICD: PROV-BSD Provision of Bulk REMCo Standing Data].*

(7) *The RMA* may, by having regard to the number of *bulk REMCo standing data requests* made by a *participant*, impose a rolling 30 calendar day limit on the number of requests that a *participant* may lodge under clause 2.1.8(2) for a fixed or indefinite period.

2.2. **Changing the REMCO Registry**

2.2.1. Purpose of this Part [RMR][24]

The purpose of Part 2.2 is to ensure that *the REMCO registry* is *accurate*.

2.2.2. REMCo must keep REMCo registry accurate [RMR][25]

(1) *REMCo* must not knowingly permit the *REMCo registry* to be materially *inaccurate* in respect of the items of the *REMCo standing data* for which it is the source under clause 2.1.3(1).

(2) If *REMCo* becomes aware of a material *inaccuracy* in the *REMCo registry*, then:

(a) if it is the source for the item of the *REMCo standing data* under clause 2.1.3(1) — it must as a *reasonable and prudent person* correct the *inaccuracy*; or

(b) if it is not the source for the item of the *REMCo standing data* under clause 2.1.3(1) — it must notify the *network operator* as soon as practicable and provide details of the *inaccuracy*.

2.2.3. Participants must keep REMCo registry accurate [RMR][26]

(1) Without limiting clause 2.2.4 or clause 2.2.9, a *participant* must not knowingly permit *the REMCO registry* to be materially *inaccurate*.

(2) A *network operator* may discharge its duty under clause 2.2.3(1) by, as soon as practicable

(a) lodging a *data change notice* under clause 2.2.4(1)(a); or

(b) notifying *the GRMS operations staff* under clause 2.2.4(1)(b) that multiple *data change transactions* are required and should be dealt with as a bulk *transaction*; or

(c) lodging an *error correction notice* under clause 2.2.9(3) in respect of having lodged an incorrect *new connection confirmation notice* or incorrect *permanent removal confirmation notice*.

(3) A *current user* may discharge its duty under clause 2.2.3(1) by, forthwith notifying:

(a) the *previous user* under clause 2.2.9(1)(a) that it incorrectly lodged a *transfer request*; or

(b) the *network operator* under clause 2.2.9(1)(b).

(4) A *previous user* may discharge its duty under clause 2.2.3(1) by, forthwith lodging an *error correction notice* under clause 2.2.9(2) in respect of an incorrect *transfer request* having been lodged by the *current user*.

(5) The *previous user*, *current user,* and the *network operator* must, where appropriate and reasonable, cooperate and assist *REMCo* with maintaining accurate *REMCo standing data* in the *REMCo registry* and correcting incorrect *delivery point transactions* by providing all reasonable assistance to *REMCo* in relation to a *data change transaction* and an *error correction transaction* (as applicable).

2.2.4. Data change notice [RMR][27]

(1) If the *network operator* for a *delivery point* becomes aware of a change to, or an inaccuracy in, items 2.1.3(1)(f), 2.1.3(1)(g), 2.1.3(1)(h), 2.1.3(1)(k) or 2.1.3(1)(l) of the *REMCo standing data* for which it is the source under rule 2.1.3(1), then it must as soon as practicable:

(a) lodge a *data change notice* for the *delivery point,* by means of *notice*, with *the GRMS Operations staff*; or

> *Notification format defined in [ICD: DCN 'Data Change Notice']*

(b) notify *the GRMS operations staff,* by means of *notice*, that multiple *data change transactions* are required and these should be dealt with as a bulk *transaction* under clause 2.2.8.

> *Notification format defined in [ICD: DCN-MULT 'Multiple Data Change Notice']*

(2) If *the GRMS operation staff* determine that the multiple *data change transactions* referred to in clause 2.2.4(1)(b) should not be dealt with as a bulk *transaction*, then:

(a) *the GRMS operation staff* must *promptly* notify, by means of a *notice*, the *network operator* or the *provider of BL and HR* (as applicable) of this determination; and

> *Notification format defined in [ICD: DCN-NO-MULT-NOTF 'Notification that Multiple Data Change Notice is not appropriate']*

(b) The *network operator* must lodge a *data change notice* under clause 2.2.4(1)(a) in respect of each *delivery point* affected by the *network operator's* proposed change to the *REMCo standing data*.

(3) A *data change notice* must specify at least the following information:

(a) the *MIRN*; and

(b) the *GBO Identification* of the *network operator* lodging the *data change notice*; and

(c) the proposed amendment to the *REMCo standing data*; and

(d) the reason for the proposed amendment; and

(e) the earliest date that the proposed amendment to the *REMCo standing data* can be registered in *the registry entity*.

2.2.5. Requirements for valid data change notice [RMR][28]

(1) Upon receipt of the *data change notice*, *the GRMS Operations staff* must assess which items of *REMCo Standing Data* are proposed to be changed in the *data change notice*.

(a) If the *data change notice* includes a proposed amendment to item 2.1.3(1)(f), then *the GRMS Operations staff* must forward the data change notice to *the RMA* for resolution. *The RMA* will manage the process and consult with affected parties.

(b) If the *data change notice* includes proposed amendments to any or all of items 2.1.3(1)(g), 2.1.3(1)(h), 2.1.3(1)(k) or 2.1.3(1)(l), then *the GRMS Operations staff* must forward the *data change notice* to *the registry entity,* which must validate the *data change notice;* the *data change notice* is valid only if:

(i) the *delivery point* exists within *the registry entity*; and

(ii) the *delivery point's MIRN status* is *commissioned* or *decommissioned*; and

(iii) there is not in relation to the *delivery point*:

A. an *open data change transaction* within *the registry entity* for the same item of *REMCo standing data*, where the effective date of the *open data change transaction* is on or after the effective date of the *data change notice* being validated; or

B. an open transaction that is not a *data change transaction* within *the registry entity*, specifically:

- an *open transfer request*;

- an *open error correction transaction*; or

- an *open disconnection transaction*; or

- an *open reconnection transaction*; or

- an *open permanent removal transaction*; and

(iv) it is lodged by the network operator who has an active GBO identification; and

(v) the proposed amendment only relates to items 2.1.3(1)(g), 2.1.3(1)(h), 2.1.3(1)(k) or 2.1.3(1)(l) of the *REMCo standing data*; and

(vi) the proposed amendment relates to item 2.1.3(1)(h) of the *REMCo standing data*, that the *gas zone* exists within *the registry entity*; and

(vii) the date proposed under clause 2.2.4(3)(e) is no earlier than 30 *business days* and no later than 30 *business days* after the date on which the *data change notice* is processed by *the registry entity*.

2.2.6. If data change notice is not valid [RMR][29]

Upon receipt of a *data change notice* which is not valid, *the registry entity* must *promptly*:

(a) reject the *data change notice*; and

(b) *notify,* by means of a *notice,* the *person* that lodged the *data change notice*, to indicate that the *data change notice* has been rejected, including the rejection reason.

Notification format defined in [ICD: NOT-NOCHNG 'Notice of no change made to registry entity']

2.2.7. If data change notice is valid the registry entity accepts data change transaction [RMR][30]

Upon receipt of a valid *data change notice* lodged under clause 2.2.4(1), *the registry entity* must *forthwith* accept the *data change notice*, and update the *REMCo registry* under clause 2.2.26.

2.2.8. Multiple data change transactions [RMR][31]

(1) Where the GRMS Operations staff determine that multiple data change transactions need to be handled as a bulk transaction:

(a) *the GRMS Operations staff* will manage the process and consult with affected parties to ensure the process is done efficiently and determine the *gas day* upon which the multiple *data change transactions* will take effect; and

(b) where the multiple *data change transactions* relate to an update under clause **Error! Reference source not found.**, the *network operator* must advise this by means of a *bulk electronic file,* containing at least the following information:

> (i) *MIRN*; and
>
> (ii) the effective start date of the values provided; and
>
> (iii) *non-temperature-sensitive base load*; and
>
> (iv) *temperature sensitivity heating rate*

Notification format defined in [ICD BLHR: Base load and heating rate]

(2) *The GRMS Operations staff* may deem it necessary, in consultation with affected parties, to *cancel* any *open transactions* which may be in progress for affected *delivery points*, and inform affected *participants*. Where a *transaction* has been initiated by means of *aseXML*, then notification from *the registry entity* of the cancellation will also be by means of *aseXML,* otherwise, the cancellation will be by means of a *notice,* as follows:

Notification format defined in [ICD: DCN-CAN-NOTF 'Data Change Notice Cancelled Notification'].

Notification format defined in [ICD: ECNET-CAN-NOTF 'Error Correction Cancellation Notification']

Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']

Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']

Notification format defined in [ICD: PR-CAN-NOTF 'Permanent Removal Cancelled Notification']

CGI

Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']

(3) Upon completing the multiple *data change transactions:*

(a) *the GRMS Operations staff* must update *the REMCo registry* accordingly, where changes shall take effect from the start of the *gas day* as determined by *the GRMS Operations staff* under clause 2.2.8(1), and provide the affected parties with at least the information contained in clause 2.2.30(1) for the affected *delivery points*.

(b) Where the *data change transactions* relate to an update under clause **Error! Reference source not found.**, *the GRMS Operations staff* must update *the REMCo registry* accordingly, where changes shall take effect from the start of the *gas day* as determined by *the GRMS Operations staff* under clause 2.2.8(1), and provide, in consultation with affected parties, the affected parties with *bulk REMCo Standing Data*.

Notification format defined in [ICD: PROV-BSD Provision of Bulk REMCo Standing Data].

2.2.9. Error Correction Notice [RMR][32]

(1) If a *current user* becomes aware of an error or inaccuracy in an item of the *REMCo standing data* as the result of:

(a) lodging an incorrect *transfer request* with *the registry entity* — the *current user* must forthwith notify the *previous user* of this fact. If the *current user* does not know the identity of the *previous user* then:

(i) the *current user* must as soon as practicable lodge a 'Request for MIRN previous user notice' with *the GRMS Operations staff*, by means of a *notice*. The *notice* must include the following details:

A. the *MIRN*; and

B. the *GBO identification* of the *participant* lodging the *notice*; and

C. the date the *transfer request* was completed (being the *transfer day* on which the *transfer* was purported to have occurred).

Notification format defined in [ICD: REQPU 'Request for MIRN previous user']

(ii) within *one business day* of receipt of a *notice* under clause 2.2.9(1)(a)(i), *the GRMS Operations staff* must confirm that the *notice* is valid; a *notice* under clause 2.2.9(1)(a)(i) is valid if:

A. the *participant* lodging the *notice* is the *current user*;

B. the *delivery point* exists within the *REMCo Registry*; and

C. a *transfer* was completed for the *delivery point* with a *transfer day* as specified under clause 2.2.9(1)(a)(i)C, and which had the effect of transferring the *delivery point* to the *current user* submitting the *notice*.

(iii) if a *notice* received under clause 2.2.9(1)(a)(i) is valid, *the GRMS Operations staff* must, within *one business day*, notify the *current user*, and *the RMA*, by means of a *notice*. The notice must contain the *GBO identification* of the *previous user*.

Notification format defined in [ICD: REQPU-RESP 'Response to request for MIRN previous user']

(iv) if a *notice* received under clause 2.2.9(1)(a)(i) is not valid, *the GRMS Operations staff* must, *within one business day*, notify the *current user*, and *the RMA*, by means of a *notice*. The *notice* must contain the rejection reason.

Notification format defined in [ICD: REQPU-RESP 'Response to request for MIRN previous user']

(v) as soon as practicable after receiving a *notice* under clause 2.2.9(1)(a)(iii), the *current user* must notify the *previous user* that it has become aware of an error or inaccuracy in an item of *REMCO standing data* as a result of lodging an incorrect *transfer request*,

; or

(b) the *network operator* having lodged an incorrect *delivery point transaction* with *the registry entity* in respect of *new connection confirmation notice* or *permanent removal confirmation notice* — the *current user* must as soon as practicable notify the *network operator* of this fact.

(2) If a *previous user* is notified under clause 2.2.9(1)(a)(v) it may as soon as practicable lodge an *error correction notice,* by means of *aseXML* for the *delivery point* with *the registry entity*.

Notification format defined in [ICD: ECNET 'Error Correction Notice']

(3) If a *network operator* becomes aware of an error or inaccuracy in an item of the *REMCo standing data* for a *delivery point* as the result of:

(a) being notified by the *current user* under clause 2.2.9(1)(b); or

(b) lodging an incorrect *delivery point transaction* with *the registry entity* in respect of *new connection confirmation notice* or *permanent removal confirmation notice*,

then subject to clause 2.2.9(4), it must as soon as practicable lodge an *error correction notice,* by means of *notice,* with *the GRMS operations staff*.

Notification format defined in [ICD: ECNND 'Error Correction Notice For New Connection and Permanent Removal']

(4) Before a *network operator* lodges an *error correction notice* as a result of clause 2.2.9(3)(b), it must notify the *current user* that it intends to lodge the *error correction notice.*

(5) A *previous user* or a *network operator* may only lodge an *error correction notice* in respect of an incorrect *delivery point transaction* with *the registry entity*.

(6) An *error correction notice* must specify at least the information in clauses 2.2.9(6)(a) to 2.2.9(6)(c) and 2.2.9(6)(d) below, and may specify the information in clause 2.2.9(6)(e) below:

(a) *MIRN*; and

(b) *GBO identification* of the *participant* lodging the *error correction notice*; and

(c) the type of *delivery point transaction* that needs to be corrected; and

(d) the date the *delivery point transaction* was completed, so that if the *error correction notice* relates to:

> (i) an incorrect *transfer*, the *transfer day* on which the *transfer* was purported to have occurred.; or
>
> (ii) an incorrect *new connection confirmation notice*, the day on which the *MIRN* was purported to have become *commissioned*; or
>
> (iii) an incorrect *permanent removal confirmation notice*, the day on which the *MIRN* was purported to have become *deregistered*; and

(e) if the *error correction notice* relates to an incorrect *new connection confirmation notice* or an incorrect *permanent removal confirmation notice*, then the *REMCo Initiating Receipt Id* relating to the original *delivery point transaction* that is to be corrected.

2.2.10. Requirements for valid Error Correction Notice [RMR][33]

(1) Upon receipt of an *error correction notice*, *the registry entity* must validate that the *error correction notice* is valid; an *error correction notice* is valid if:

(a) the *delivery point* exists within *the registry entity*; and

(b) the specified *delivery point transaction* relates to one of the following:

> (i) a *new connection confirmation notice*;
>
> (ii) a *transfer*; or
>
> (iii) a *permanent removal confirmation notice*.

(c) the specified *delivery point transaction* relates to the *MIRN*;

(d) the specified *delivery point transaction* has been completed; and

(e) if the specified *error correction notice* relates to:

> (i) a *transfer*, that:
>
>> A. the *participant* lodging the *error correction notice* is the *previous user*; and
>>
>> B. a *transfer* occurred on the *transfer day* specified in the *error correction notice*; and
>>
>> C. the *delivery point's MIRN status* is *commissioned* or *decommissioned*; and
>>
>> D. there is not, in relation to the *delivery point,* an *open transaction,* unless the open *transaction* is a *reconnection confirmation notice* or a *disconnection confirmation notice* for which the effective date is that same as the *transfer day* of the completed *transfer*; and
>>
>> E. the specified *delivery point transaction* was the last completed *transaction* in respect of the *delivery point* as recorded in the *REMCo registry,* unless the more recently completed *transaction* is a *reconnection confirmation notice* or a *disconnection confirmation notice* for which the effective date is that same as the *transfer day* of the completed *transfer*; or

(ii) a *new connection confirmation notice* or a *permanent removal confirmation notice*, that:

    A. the *participant* lodging the *error correction notice* is the *network operator* for the *delivery point*; and

    B. the effective date in respect of the *new connection*, or *permanent removal* (as appropriate) recorded in *the registry entity* occurred on the date specified in the *error correction notice*; and

    C. there is not, in relation to the *delivery point,* an *open transaction;* and

    D. the specified *delivery point transaction* was the last completed *transaction* in respect of the *delivery point* as recorded in the *REMCo registry*; and

(f) the *participant* lodging the notice has an *active GBO identification*; and

(g) the completion date of the specified *delivery point transaction* is not more than 425 calendar days prior to the date on which the *error correction notice* is processed by *the registry entity*

2.2.11. If the Error Correction Notice is not valid [RMR][34]

(1) Upon receipt of a *error correction notice* relating to a *transfer* which is not valid, *the registry entity* must *immediately*:

(a) reject the *error correction notice*; and

(b) *acknowledge* the *participant* that lodged the *error correction notice*, including a rejection reason.

(2) Upon receipt of a *error correction notice* relating to a *new connection* or a *permanent removal* which is not valid, *the registry entity* must *promptly*:

(a) notify, by *means* of a *notice*, the *participant* that lodged the *error correction notice*, that the *error correction notice* is invalid including a rejection reason.

    Notification format defined in [ICD: ECNND-REJ 'Error Correction Notice For New Connection and Permanent Removal Rejected']

    Note that a *previous user* or the *network operator* wishing to reinitiate an *error correction notice* that has been rejected must lodge a new *error correction notice*.

2.2.12. If the Error Correction Notice is valid [RMR][35]

(1) Upon receipt of a *error correction notice* which is valid, *the registry entity* must:

(a) forthwith accept the *error correction notice*;

    and

(b) if the *error correction notice* relates to an incorrect *transfer, promptly*:

    (i) *acknowledge* the *participant* that lodged the *error correction notice*.

    (ii) notify, by *means* of *aseXML*, the *previous user* that the *error correction notice* has been accepted, providing at least the following information from the *error correction notice*:

    Notification format defined in [ICD: ECNET-NOTF-PU 'Error Correction Notification for erroneous transfer to Previous User']

A. the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*; and

B. the *process time* of the *error correction notice*; and

(iii) notify, by *means* of *aseXML*, the *network operator* that the *error correction notice* has been accepted, providing at least the following information from the *error correction notice*:

Notification format defined in [ICD: ECNET-NOTF-NO 'Error Correction Notification for erroneous transfer to Network Operator']

A. the *MIRN*; and

B. the *GBO Identification* of the *previous user*; and

C. the *transfer day* on which the *transfer* was purported to have occurred; and

D. the *process time* of the *error correction notice*; and

E. the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*; and

(iv) notify, by *means* of *aseXML*, the *current user* that the *error correction notice* has been accepted, providing at least the following information from the *error correction notice*:

Notification format defined in [ICD: ECNET-NOTF-CU 'Error Correction Notification for erroneous transfer to Current User']

A. the *MIRN*; and

B. the *transfer day* on which the *transfer* was purported to have occurred; and

C. the *process time* of the *error correction notice*; and

D. the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*.

(v) suspend the *error correction transaction* until the lapse of the *error correction objection resolution period;*

or

(c) otherwise, if the *error correction notice* relates to a *new connection confirmation notice* or a *permanent removal confirmation notice,* then *the registry entity* must *promptly* notify, by *means* of a *notice,*

(i) the *network operator* that the *error correction notice* has been accepted; and

(ii) the *current user* that the *error correction notice* has been accepted, if the *error correction notice* relates to a *new connection confirmation notice.*

Notification format defined in [ICD: ECNND-CONF-NOTF 'Error Correction Notice For New Connection and Permanent Removal Confirmation Notification']

2.2.13. Error Correction Objection (in respect of an incorrect *transfer*) [RMR][36]

(1) Before *close of business* at the expiry of 2 *full business days* after the *process time* notified under clause 2.2.12(1)(b)(iii)D or 2.2.12(1)(b)(iv)C*, a *network operator* or *current user* may lodge an *error correction objection* with *the registry entity* by means of *aseXML*, on one or more of the following grounds:

(a) after making reasonable enquiries, the *participant* reasonably believes that the *error correction notice* contains incorrect information

(b) the *participant* reasonably believes that the *delivery point transaction* specified in the *error correction notice* is correct

> *Notification format defined in [ICD: ECNET-OBJ-NO 'Error Correction Objection by Network Operator']*
>
> *Notification format defined in [ICD: ECNET-OBJ-CU 'Error Correction Objection by Current User']*

(2) An *error correction objection* under this clause must specify at least the following information:

(a) the *GBO Identification* of the *participant* lodging the *error correction objection*; and

(b) the ground of the *participant's* objection; and

(c) the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*, specified under clause 2.2.12(1)(b)(iii)E or 2.2.12(1)(b)(iv)D.

(3) Upon receipt of the *error correction objection*, the *registry entity* must validate that the *error correction objection* is valid. An *error correction objection* is only valid if:

(a) it corresponds to an *open error correction notice* lodged under clause 2.2.9(2), in respect of a correction to an incorrect *transfer* and on the same *delivery point*; and

(b) it is lodged by the active *network operator* or *current user,* who has an *active GBO identification* (as applicable); and

(c) the *participant* lodging the *error correction objection* is objecting on one or more of the grounds specified in clause 2.2.12(1); and

(d) the *error correction objection* is received within the time period allowed, as defined in this clause, 2.2.12(1).

2.2.14. If an Error Correction Objection is not valid [RMR][37]

Upon receipt of an *error correction objection* which is not valid, *the registry entity* must *immediately*:

(a) reject the *correction objection*; and

(b) *acknowledge* the *user* that lodged the *error correction objection*, including a rejection reason.

2.2.15. If an Error Correction Objection is valid [RMR][38]

(1) Upon receipt of a valid *error correction objection* in respect of an erroneous *transfer*, *the registry entity* must:

(a) forthwith accept the *error correction objection*; and

(b) *promptly acknowledge* the *participant* that lodged the *error correction*.

(c) *promptly* notify the *previous user,* and the objecting *participant,* of the error *correction objection,* by means of *aseXML.*

> *Notification format defined in [ICD: ECNET-OBJ-NOTF-OP 'Error Correction Objection Notification to objecting participant']*

> *Notification format defined in [ICD: ECNET-OBJ-NOTF-PU 'Error Correction Objection Notification to previous user']*

(2) Notification from *the registry entity* under clause 2.2.15(1)(c) must specify at least the following information:

(a) the *REMCo initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction* specified under clause 2.2.12(1)(b)(iii)E or 2.2.12(1)(b)(iv)D; and

(b) the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction objection* ; and

(c) the *process time* of the *error correction objection*

2.2.16. Withdrawal of Error Correction Objection [RMR][39]

(1) Before *close of business* at the expiry of 3 *full business days* after the *process time* notified under clause 2.2.15(2)(c), a *network operator* or *current user* that lodged an *error correction withdrawal notice* may lodge an *error correction objection withdrawal notice* with *the registry entity*, by means of *aseXML.*

> *Notification format defined in [ICD: ECNET-WOB 'Error Correction Objection Withdrawal Notice']*

(2) An *error correction objection withdrawal notice* under this clause must specify at least the following information:

(a) the *GBO Identification* of the *participant* lodging the *error correction objection withdrawal notice;* and

(b) the *REMCo initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction,* specified under clause 2.2.12(1)(b)(iii)E or 2.2.12(1)(b)(iv); and

(c) the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction objection*, specified under clause 2.2.15(2)(b).

(3) Upon receipt of the *error correction objection withdrawal notice*, *the registry entity* must validate that the *error correction objection withdrawal* is valid as follows:

(a) the *error correction objection withdrawal notice* relates to an *open error correction objection* previously lodged by the *participant* under clause 2.2.13(1); and

(b) the *error correction objection withdrawal notice* relates to an *open error correction transaction*; and

(c) the *participant* lodging the notice has an *active GBO identification*; and

(d) the *error correction objection withdrawal notice* is received within the time period allowed, as defined under clause, 2.2.16(1).

2.2.17. If Error Correction Objection Withdrawal Notice is not valid [RMR][40]

Upon receipt of an *error correction objection withdrawal notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *error correction objection withdrawal notice*; and

(b) *acknowledge* the *participant* that lodged the *error correction objection withdrawal notice*, including a rejection reason.

2.2.18. If Error Correction Objection Withdrawal Notice is valid [RMR][41]

(1) Upon receipt of a valid *error correction objection withdrawal* in respect of an erroneous transfer, *the registry entity* must:

(a) forthwith accept the *error correction objection withdrawal notice*; and

(b) forthwith *acknowledge* the *participant* that lodged the *error correction objection withdrawal notice*; and

(c) *promptly cancel* the *error correction objection* in *the registry entity*; and

(d) notify the *previous user,* and the objecting *participant,* that the *error correction objection withdrawal notice* has been accepted, and the corresponding *error correction objection* has been withdrawn, by means of *aseXML*, which *notice* must provide at least details of the *error correction objection* to which the *error correction objection withdrawal* relates.

> *Notification format defined in [ICD: ECNET-WOB-NOTF-OP 'Error Correction Objection Withdrawal Notification to Objecting Participant']*

> *Notification format defined in [ICD: ECNET-WOB-NOTF-PU 'Error Correction Objection Withdrawal Notification to Previous User']*

(2) Notification from *the registry entity* under clause 2.2.18(1)(d) must provide at least:

(a) the *MIRN*; and

(b) the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*, specified under clause 2.2.12(1)(b)(ii)D; and

(c) the *REMCO Initiating Receipt Id* which *the registry entity* has assigned to this *error correction objection*, specified under clause 2.2.15(2)(b).

2.2.19. Cancellation of Error Correction Transaction [RMR][42]

If *the registry entity* receives a valid *error correction objection* under clause 2.2.15, and does not receive a valid *error correction objection withdrawal notice* within the time period specified under clause 2.2.18(1), then *the registry entity* must:

(1) *forthwith cancel* the *error correction transaction*; and

(2) *promptly* notify the *network operator, current user* and *previous user* that the *error correction transaction* has been *cancelled*, by means of *aseXML*.

> *Notification format defined in [ICD: ECNET-CAN-NOTF 'Error Correction Cancellation Notification']*

2.2.20. Withdrawal of Error Correction Notice [RMR][43]

(1) A *previous user* which has lodged an *error correction notice* in respect of an incorrect *transfer* under clause 2.2.9(2) may at any time before the *error correction transaction* is completed under clause 2.2.23, withdraw that *error correction notice.* An *error correction withdrawal notice* in respect of a *transfer* may be lodged, by means of *aseXML*, with *the registry entity*.

Notification format defined in [ICD: ECNET-WDR 'Error Correction Withdrawal Notice]

(2) A provision of this document permitting or requiring *the registry entity* to *cancel* an *error correction transaction* does not limit the generality of clause 2.2.20(1).

(3) An *error correction withdrawal notice* must specify at least the following information:

(a) the *REMCo Initiating Receipt Id* which *the registry entity* has assigned to this *error correction transaction*, specified under clause 2.2.12(1)(b)(iii)E or 2.2.12(1)(b)(iv).

(b) the *GBO identification* of the *previous user* lodging the *error correction withdrawal notice*; and

(4) An *error correction withdrawal notice* is valid only if it corresponds to an *open error correction notice* previously lodged by the *previous user*, who has an *active GBO identification*.

2.2.21. If Error Correction Withdrawal Notice is not valid [RMR][44]

Upon receipt of an *error correction withdrawal notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *error correction withdrawal notice*; and

(b) *acknowledge* the *participant* that lodged the *error correction withdrawal notice*, including a rejection reason.

2.2.22. If Error Correction Withdrawal Notice is valid [RMR][45]

Upon receipt of a *error correction withdrawal notice* which is valid, *the registry entity* must:

(1) forthwith accept the *error correction withdrawal notice*; and

(2) *promptly acknowledge* the *participant* that lodged the *error correction withdrawal notice*; and

(3) *forthwith cancel* the *error correction transaction*; and

(4) *promptly* notify the *network operator*, *current user,* and *previous user* that the *error correction transaction* has been *cancelled*, by means of *aseXML*.

Notification format defined in [ICD: ECNET-CAN-NOTF 'Error Correction Cancellation Notification']

2.2.23. REMCo to accept Error Correction Transaction in respect of an incorrect transfer [RMR][46]

(1) If *the registry entity:*

(a) has accepted a valid *error correction notice* under clause 2.2.12(1) in respect of an incorrect *transfer*; and

(b) has not been notified of an *error correction withdrawal notice* under clause 2.2.20; and

(c) either*:*

(i) does not receive a valid *error correction objection*; or

(ii) receives a valid *error correction objection* under clause 2.2.15 and also a valid *error correction objection withdrawal notice* under clause 2.2.18,

then the *registry entity* must

(d) forthwith mark the *error correction transaction* as *pending*; and

(e) *promptly* notify the *previous user*, the *network operator*, and the *current user* by means of *aseXML* that the *error correction transaction* is *pending*:

> *Notification format defined in [ICD: ECNET-PEND-NOTF 'Error Correction Notice Confirmation Notification'].*

(2) Upon notifying participants under clause 2.2.23(1)(e), the *registry entity* must

(a) forthwith complete the *error correction transaction;* and

(b) *promptly* notify the *previous user*, the *network operator*, and the *current user* by means of *aseXML* that the *error correction transaction* has been completed:

> *Notification format defined in [ICD: ECNET-CONF-NOTF 'Error Correction Notice Confirmation Notification'].*

(3) If the *error correction transaction* is completed under this clause 2.2.23, then *the registry entity* must update *the REMCo registry* d as defined under clause 2.2.27(a).

2.2.24. When error correction transactions take effect [RMR][47]

Unless this document states otherwise, an *error correction transaction* takes effect as from:

(a) in respect of a *transfer* — the start of the *transfer day* on which the *transfer* was purported to have occurred; and

(b) in respect of a *new connection confirmation notice* — the start of the *gas day* on which the *MIRN* was purported to have become *commissioned*; and

(c) in respect of a *permanent removal confirmation notice* — the start of the *gas day* on which the *MIRN* was purported to have become *deregistered*.

2.2.25. Network operator must provide metering data to new current user [RMR][48]

No [BS] requirement. Refer to [RMR] for context only.

2.2.26. Updating REMCo registry after accepting a data change transaction [RMR][49]

(1) Upon accepting a *data change transaction* in relation to a *delivery point* under clause 2.2.7, *the registry entity* will assess when the amendment to the *REMCo standing data* becomes effective, based on the date specified under rule 2.2.4(3)(e), (**"effective date"**). *The registry entity* will make the update to the *REMCo registry* either:

(a) forthwith, if the *effective date* of the *data change notice* is retrospective; or

(b) on the start of the *gas day* of the *effective date*, if the *effective date* is prospective.

> The relevant item of *REMCo standing data* will be amended in the *REMCo registry* to take effect from the start of the *gas day* for the effective date specified under rule 2.2.4(3)(e).

(2) This clause does not apply to multiple *data change transactions* that are dealt with as a bulk transaction under rule 2.2.8.

(3) Note that where a *data change transaction* is prospective, during the period before the *effective date* is reached, the *data change transaction* is considered to be *open.*

2.2.27. Updating REMCo registry after accepting an error correction transaction [RMR][50]

The registry entity must:

(a) upon accepting an *error correction transaction* in relation to:

(i) an incorrect *new connection confirmation notice*; or

(ii) an incorrect *permanent removal confirmation notice*,

for a delivery point under clause 2.2.12 - forthwith correct the relevant items of *REMCo standing data* in the *REMCO registry,* to take effect from the start of the *gas day* specified in clause 2.2.24(b) or clause 2.2.24(c) (as applicable); and

(b) upon completing an *error correction transaction* in relation to an incorrect *transfer* – forthwith correct the relevant items of *REMCo standing data* in the *REMCo registry,* to take effect from the start of the *gas day* specified in clause 2.2.24(a); and

Note that under this clause, 2.2.27, a record of the erroneous data will be retained.

2.2.28. Updating REMCo registry due to change in MIRN status [RMR][51]

The registry entity must:

(a) upon accepting a valid *new connection confirmation notice* under clause 3.1.7 *forthwith*:

(i) create a new record for the *delivery point*; and

(ii) record the delivery point's MIRN status as *commissioned*; and

(iii) record *REMCo standing data* in the *REMCo registry* including the items of the *REMCo standing data* provided by the *network operator,* and including determining:

A. whether the *customer* is a *small use customer* under clause 8.4.1; and

B. the *ROLR* for the *delivery point*, based on the default for the *jurisdiction,*

to take effect from the start of the *gas day* on which the *MIRN* became *commissioned* as notified to *the registry entity* by the *network operator*; and

(b) upon accepting a valid *disconnection confirmation notice* under clause 3.5.12 — *forthwith* record the *delivery point's MIRN status* in *the registry entity* as *decommissioned*, to take effect from the start of the *gas day* on which the *MIRN* became *decommissioned* as notified to *the registry entity* by the *network operator*; and

(c) upon accepting a valid *reconnection confirmation notice* under clause 3.5.20 — *forthwith* record the *delivery point's MIRN status* in *the registry entity* as *commissioned*, to take effect from the start of the *gas day* on which the *MIRN* became *commissioned* again as notified to *the registry entity* by the *network operator*; and

(d) upon accepting a valid *permanent removal confirmation notice* under clause 3.6.8 — *forthwith* deregister the MIRN in *the registry entity*, to take effect from the start of the *gas*

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day on which the *MIRN* became *deregistered* as notified to *the registry entity* by the *network operator*.

2.2.29. Updating REMCo registry due to a completed transfer or determination of a small use customer or small use customer indicator determination [RMR][52]

The registry entity must:

(a) record the incoming user in the REMCo registry as the current user to take effect from the start of the transfer day:

(i) for a basic metered delivery point forthwith upon the receipt of a meter reading under clause 3.3.27(1)(b), or

(ii) for an interval metered delivery point from the start of the earliest transfer day.

(b) Upon determining whether or not the *customer* at a *delivery point* is a *small use customer* under clause 8.4.1— within 1 *business day* record in *the REMCo registry* whether or not the *customer* is a *small use customer,* to take effect from the start of the *gas day* on which the determination was made by *the data estimation entity and the registry entity*.

2.2.30. Provision of REMCo standing data [RMR][53]

(1) Upon updating *the REMCo registry* under clauses 2.2.26 (*data change transaction*), 2.2.27(a)(ii) (*error correction transaction* for incorrect *permanent removal confirmation notice)*, 2.2.28(b) (*disconnection transaction*), 2.2.28(c) (*reconnection transaction*), 2.2.28(d) (*permanent removal transaction*) , 2.2.29(b) (*small use customer* update *transaction*) or **Error! Reference source not found.** (*small use customer indicator* update *transaction)*, *the registry entity* must *promptly* notify the *network operator* and *current user* of the update to the *REMCo registry* and provide them, by means of a *aseXML*, with at least the following information:

(a) the *MIRN*; and

(b) the updated item of *REMCo standing data* and the effective date of that data item; and

(c) the reason for the update to the item of *REMCo standing data*; and

(d) the last date of modification of the *REMCo registry* for the *MIRN*; and

(e) the last person to initiate a modification to the *REMCo registry* for the *MIRN*.

Notification format defined in [ICD: DSD 'Deliver Standing Data'].

If an update was made to the registry entity under clause 2.2.8 (*multiple data change transaction)*, then the information in clause 2.2.30(1) will not be provided by means of *aseXML*. Rather, *the GRMS Operations* staff must consult with affected parties in relation to the means by which information will be provided.

(2) Upon updating the *REMCo registry* under clause 2.2.27(b) (*error correction transaction* for incorrect *transfer*), 2.2.28(a) (*new connection transaction*) or 2.2.29(a) (*transfer*), *REMCo* must

(a) *promptly* notify the *network operator* and the *current user* of at least the following information:

(i) the *MIRN*; and

(ii) the updated item of *REMCo standing data* and the date that the change to the data item became effective; and

(iii) the reason for the update to the item of *REMCo standing data*; and

(iv) the *last date of modification* of the *REMCo registry* for the *MIRN*; and

(v) the last person to initiate a modification to the *REMCo registry* for the *MIRN*; and

(b) provide the *current user* with the *REMCo standing data* for the *delivery point*.

Notification format defined in [ICD: DSD 'Deliver Standing Data'].

The following table includes the details of those data items of *REMCo standing data* to be included in the *DSD 'Deliver Standing Data transaction,* with reference to each scenario in which it will be sent.

Business Process	Reference	RMR Reference	Recipient	(Item reference) Data Items to be included
Data Change	2.2.26	49	Current User or Network operator	2.1.3(1)(a): MIRN - N/A: MIRN checksum - item of changed data (e.g. 2.1.3(1)(h): gas zone) 2.1.3(1)(m): last date of modification (e.g. gas zone 'effective date') 2.1.3(1)(n): GBO Identification of the participant initiating the data change - N/A: change reason code
Error Correction in respect of incorrect new connection	2.2.27 (a)(i)	50(a)(i)	Current User or Network operator	N/A. Standing data not delivered.
Error Correction in respect of incorrect permanent removal	2.2.27 (a)(ii)	50(a)(ii)	Current User or Network operator	2.1.3(1)(a): MIRN - N/A: MIRN checksum 2.1.3(1)(b): MIRN status 2.1.3(1)(m): last date of modification (effective date of the permanent removal being corrected) 2.1.3(1)(n): GBO Identification of the participant initiating the error correction of permanent removal - N/A: change reason code
Error Correction in respect of incorrect transfer	2.2.27 (b)	50(b)	Current user	2.1.3(1)(a): MIRN - N/A: MIRN checksum 2.1.3(1)(b): MIRN status 2.1.3(1)(c): first date on which the MIRN became commissioned 2.1.3(1)(d): current user 2.1.3(1)(e): ROLR 2.1.3(1)(f): network operator 2.1.3(1)(g): meter type

				• 2.1.3(1)(h): gas zone • Either 2.1.3(1)(i): small use customer or 2.1.3(1)(j): small use customer indicator (as applicable for Western Australia) • 2.1.3(1)(m): last date of modification (e.g. error correction 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the error correction • N/A: change reason code
Error Correction in respect of incorrect transfer	2.2.27 (b)	50	Network operator	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(d): current user • 2.1.3(1)(m): last date of modification (i.e. error correction 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the error correction • N/A: change reason code
New Connection	2.2.28 (a)	51	Current user	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(b): MIRN status • 2.1.3(1)(c): first date on which the MIRN became commissioned • 2.1.3(1)(d): current user • 2.1.3(1)(e): ROLR • 2.1.3(1)(f): network operator • 2.1.3(1)(g): meter type • 2.1.3(1)(h): gas zone • Either 2.1.3(1)(i): small use customer or 2.1.3(1)(j): small use customer indicator (as applicable for Western Australia) • 2.1.3(1)(m): last date of modification (e.g. new connection 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the new connection • N/A: change reason code
New Connection	2.2.28 (a)	51	Network operator	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(b): MIRN status • 2.1.3(1)(c): first date on which the MIRN became commissioned • 2.1.3(1)(m): last date of modification (i.e. new connection 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the new connection • N/A: change reason code
Change to MIRN status (disconnection, reconnection, permanent removal)	2.2.28 (b)2.2.28(c)2.2.28(d)	51	Current user/ Network operator	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(b): MIRN status • 2.1.3(1)(m): last date of modification (i.e. MIRN status 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the change in MIRN status • N/A: change reason code
Transfer	2.2.29 (a)	52(a)	Current user	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum

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				• 2.1.3(1)(b): MIRN status • 2.1.3(1)(c): first date on which the MIRN became commissioned • 2.1.3(1)(d): current user • 2.1.3(1)(e): ROLR • 2.1.3(1)(f): network operator • 2.1.3(1)(g): meter type • 2.1.3(1)(h): gas zone • Either 2.1.3(1)(i): small use customer or 2.1.3(1)(j): small use customer indicator (as applicable) • 2.1.3(1)(m): last date of modification (e.g. transfer 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the transfer • N/A: change reason code
Transfer	**Error ! Refer ence sourc e not found.**	52(a)	Network operator	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(d): current user • 2.1.3(1)(m): last date of modification (i.e. transfer 'effective date') • 2.1.3(1)(n): GBO Identification of the participant initiating the transfer • N/A: change reason code
Small Use Customer Determination	2.2.29 (b)	52(b)	Current user/ Network operator	• 2.1.3(1)(a): MIRN • N/A: MIRN checksum • 2.1.3(1)(m): last date of modification (i.e. small use customer effective date • 2.1.3(1)(n): GBO Identification of the participant initiating the change (i.e. REMCo's GBO identification) • N/A: change reason code

2.3. **Retention of and access to historical data in the REMCo registry [Part 2.3]**

2.3.1. REMCo registry to provide audit trail [RMR][54]

(1) The GRMS Operations staff must ensure that the registry entity retains a full change history, such that it can be recreated for a delivery point as at the beginning of the gas day in the relevant jurisdiction, for any date in the preceding 7 years or (if the data made available to REMCo covers less than 7 years) for as many years as there is REMCo standing data in the REMCo registry for the delivery point.

(2) The change history maintained under this clause must for any change to the *REMCo standing data* for a delivery point made in the preceding 7 years, or for as many years as there is *REMCo standing data* available, permit the identification of:

(a) the date on which the change occurred; and

(b) the identity of the *person* who initiated or requested the change.

2.3.2. Accessibility of data in the REMCo registry & Explicit informed consent required [RMR][55] & [55A]

(1) Accessibility of data in the REMCo registry:

(a) The *GRMS Operations staff* must maintain or archive the previous *REMCo standing data* for each *delivery point* identified in the *registry entity*:

> (i) in a readily accessible format for at least 2 years after the date on which a *delivery point* is *deregistered*; and

> (ii) after that for at least a further 5 years in a format accessible by *REMCo* within 5 *business days*.

(2) Explicit informed consent required:

(a) Before lodging a request with the *GRMS Operations staff* for *historical REMCo standing data* for a *delivery point* that relates to a period for which the *user* was not the *current user*, a *user* must obtain the *customer's explicit informed consent* to the receipt by the *user* of the requested data.

> Note: The *user* should ensure that the *customer's* consent extends to all actions the *user* may need to undertake to complete the request for the *historical REMCo standing data*.

(b) If at any time before *GRMS Operations staff* have provided information to a *user* under clause 2.3.4(2), a *customer's explicit informed consent* under clause 2.3.2(2)(a) ceases to apply (for example because it is withdrawn), then the *user* must withdraw the request to the extent that the request relied upon the *customer's explicit informed consent*.

(c) If at any time after *GRMS Operations staff* have provided information to a *user* under clause 2.3.4(2), a *customer's explicit informed consent* under rule 2.3.2(2)(a) ceases to apply (for example because it is withdrawn), then the *user* must not use the information for any purpose and must to the extent reasonably practicable delete all copies of the information.

2.3.3. Request for historical REMCo standing data [RMR][56]

(1) Subject to clause 2.3.3(2), a *user* or a *network operator* may lodge, by means of a *notice*, a historical *REMCo standing data* request with the *GRMS Operations staff* in respect of a delivery point.

> *Notification format defined in [ICD: REQ-HSD 'Historical REMCo standing data request']*

(2) By lodging an historical *REMCo standing data* request with the *GRMS Operations staff* under clause 2.3.3(1), the *user* represents and warrants to *REMCo* that either:

(a) the historical REMCo standing data requested by the user only relates to a period for which the user was the current user; or

(b) that the *user* has complied with clause 2.3.2(2)(a).

(3) The *user* makes the warranty in this clause anew on each day that an historical *REMCo standing data* request is open.

(4) An *historical REMCo standing data* request must specify at least the following information:

(a) the *MIRN*; and

(b) the *GBO identification* of the *participant* lodging the request; and

(c) the start date and end date of the period to which the request relates; and

(d) the *historical REMCo standing data* requested.

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(5) The *GRMS Operations staff* may, by having regard to the number of historical *REMCo standing data* requests it receives, and in consultation with *the RMA,* impose a daily limit on the number of historical *REMCo standing data* requests that a *participant* may lodge under clause 2.3.3(1) for a fixed or indefinite period.

2.3.4. REMCo to provide historical REMCo standing data [RMR][57]

(1) Upon receipt of an *historical REMCo standing data request* under clause 2.3.3(1), the *GRMS Operations staff* must:

(a) confirm that the *delivery point* exists within *the registry entity*; and

(b) confirm that the *participant* has an *active GBO identification* within *the registry entity* for the date on which the data is extracted*;* and

(c) if the *historical REMCo standing data request* was made by a *network operator*, confirm that the *network operator* is recorded in *the registry entity* as the *network operator* for that *delivery point*.

(d) confirm that the start date and end date of the period to which the request relates are both valid, and the start date is prior to the end date; and

(2) Upon confirming the matters in clause 2.3.4(1), and provided that the *participant* has not withdrawn the request under clause 2.3.4(4), the *GRMS Operations staff* must provide, by means of a *bulk electronic file*, the *historical REMCo standing data* (as requested) to the *participant* that lodged the *historical REMCo standing data request*:

(a) within 1 *business day*, if the historical *REMCo standing data* requested is less than 2 years old; or

(b) within 5 *business days*, if the historical *REMCo standing data* requested is between 2 and 7 years old.

> *Notification format defined in [ICD: PROV-HSD 'Provision of historical REMCo standing data']*

> Note that historical *REMCo standing data* provided shall include a number of records, each containing a full set of *REMCo standing data*, as follows:

> - *REMCo standing data* which was effective on the start date of the request.
> - For each change which has been made to the *REMCo standing data* within the *REMCo registry*, the *REMCo standing data* which was effective on the effective date of that change.
> - *REMCo standing data* which was effective on the end date of the request.

(3) If the *GRMS operations staff* were unable to confirm any or all of the matters in clause 2.3.4(1), then the *GRMS operations staff* must within 1 *business day* of receiving the *historical REMCo standing data request*:

(a) reject the *historical REMCo standing data* request; and

(b) notify the *participant*, by means of a *notice*, that lodged the *historical REMCo standing data request* that the *historical REMCo standing data request* has been rejected and provide the reason why the *historical REMCo standing data request* has been rejected.

> *Notification format defined in [ICD: NOT-HSD-REJ 'Notification that historical REMCo standing data request was rejected']*

(4) A *participant* may at any time before receiving the requested *historical REMCo standing data* under 2.3.4(2), withdraw the request made under 2.3.3(1) by *notifying REMCo*, which notice must include at least the following information:

(a) the *MIRN*; and

(b) the *GBO identification* of the *participant* lodging the request; and

(c) the *participant's* unique reference which is associated with the associated *historical REMCo standing data* request made under clause 2.3.3(1).

> *Notification format defined in [ICD: WDR-HSD 'Withdraw historical REMCo standing data request']*

2.4. **A network operator's databases [Part 2.4]**

2.4.1. MIRN database [RMR][58]

No [BS] requirement. Refer to [RMR] for context only.

2.4.2. Street/suburb table [RMR][59]

No [BS] requirement. Refer to [RMR] for context only.

2.4.3. MSD database [RMR][60]

No [BS] requirement. Refer to [RMR] for context only.

2.4.4. Users and REMCo must assist a network operator to keep network operator's databases accurate [RMR][61]

(1) Neither a *user* nor *the GRMS Operations staff* may knowingly permit any or all of a *network operator's MIRN database, street/suburb table* or *MSD database* to be materially *inaccurate*.

(2) A *user* or *the GRMS Operations staff* may discharge their respective duties under this clause by as soon as practicable notifying, by means of a *notice*, the *network operator* of a proposed amendment to one of the *network operator's* databases together with details of why it is necessary, within 2 *business days* after becoming aware of a need to change information stored in the *MIRN database* or *MSD database*.

> *Notification format defined in [ICD: NOT-NODB 'Notice of change required in network operator databases]*

(3) Upon receipt of a notification under this clause, a *network operator* must determine whether a change is required to one of its databases, and if it determines that no change is necessary it must within 5 *business days* notify the *user* or *REMCo* (as applicable) of its determination and its reasons.

> *Notification format defined in [ICD: NOT-NODB-NOCHNG 'Notice of no change made to network operator databases]*

> Following receipt of the above *notice*, if *the GRMS Operations staff* determine that a data inconsistency may still exist, then this must be resolved in consultation with *the RMA*.

2.4.5. <No REMCo Requirement> Updating MIRN database and MSD database [RMR][62]

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(1) A *network operator* must, in accordance with this clause 2.4.5, ensure that the information stored in its *MIRN database* and its *MSD database* is accurate.

(2) Clause 2.4.5(1) does not require a *network operator* to undertake any investigation in respect of the items referred to in clause 2.4.3, but this clause does not limit the *network operator's* obligations under clause 2.4.4(3) if it is notified under clause 2.4.4(2) of a necessary change to either of those items.

(3) Upon updating its *MIRN database* and *MSD database,* except as a result of undertaking a *disconnection* under clause 3.5.1 or a reconnection under clause 3.5.13, a *network operator* must *promptly* provide at least the updated item of *MIRN standing data* or *meter standing data* (as applicable) for a *delivery point* to the *current user*.

> Note that the *network operator* will if necessary also raise a *data change notice* with *the registry entity*, under clause 2.2.4(1), if a change is made to the *gas zone* or *meter type,* or if the *delivery point* is no longer in the *network operator's GDS.*

3. MIRN Transactions

3.1. **New Connection**

3.1.1. Allocating MIRNs to network operators [RMR][63]

(1) Subject to clause 3.1.1(2), *the RMA* must, in consultation with the *network operator*, assign a range of *MIRNs* to a newly registered *network operator* at the time of notifying the *network operator* of its *GBO identification* under clause 2.1.5.

(2) *The RMA* must not assign the same range of *MIRNs* to more than one *network operator.*

3.1.2. <No REMCo Requirement> Allocating a MIRN to a delivery point [RMR][64]

(1) Upon installing a *meter* at a *new connection*, a *network operator* must, if it has not done so already:

(a) assign a *MIRN* to the *delivery point* within the range and format as allocated to the *network operator* by *REMCo* under clause 3.1.1; and

(b) determine a *MIRN checksum* for the *MIRN* in accordance with the standard algorithm as set out in this document.

(2) A *network operator*:

(a) must not assign the same *MIRN* to more than one *delivery point*; and

(b) must not re-use a *MIRN* that related to a previously *deregistered delivery point*.

3.1.3. MIRNs becoming commissioned for the first time [RMR][65]

(1) <No REMCo Requirement> A *network operator* has commissioned a *delivery point* when:

(a) a *meter* has been installed and *commissioned* at the *delivery point*; and

(b) gas is able to flow at the delivery point; and

(c) the *meter reading data* has been obtained for the *delivery point*.

(2) Upon first commissioning a delivery point, a *network operator* must:

(a) *promptly* notify the *user* that the installation of the *meter* at the *delivery point* is complete and notify the *user* of:

> (i) subject to clause 3.1.3**Error! Reference source not found.**, the *MIRN standing data;* and

> (ii) for a *basic-metered delivery point* only, the *meter standing data* assigned to the *delivery point*; and

> (iii) the *metering data* in accordance with this document as if the *user* were an *incoming user*; and

(b) *promptly* lodge a *new connection confirmation notice* with *the registry entity,* by means of *aseXML*:

> *Notification format defined in [ICD: COM-DP 'Commissioning of Delivery Point']*

3.1.4. New connection confirmation notice [RMR][66]

A *new connection confirmation notice* must specify at least the following data:

(a) the *MIRN* assigned to the *delivery point*; and

(b) the *GBO identification* of the *network operator* lodging the *new connection confirmation notice*; and

(c) the date on which the *MIRN* became *commissioned*; and

(d) the data for all those items of the *REMCo standing data* for which the *network operator* is the source under clause 2.1.3; and

(e) if the *delivery point* is *basic metered* — the *anticipated annual consumption* for the delivery point; and

3.1.5. Requirements for valid new connection confirmation notice [RMR][67]

(1) Upon receipt of the *new connection confirmation notice* under clause 3.1.3(2)(b), *the registry entity* must validate that:

(a) the *MIRN* does not already exist in *the registry entity*; and

(b) the notice is lodged by the *network operator,* who has an *active GBO identification*; and

(c) the *user* nominated by the *network operator* as the current user for item 2.1.3(1)(d) has an *active GBO identification*; and

(d) the date on which the *new connection confirmation notice* is received is on or after the date on which the *MIRN* became *commissioned; and*

(e) the *meter type* is either an *interval meter* or a *basic meter; and*

(f) the *gas zone* exists in *the registry entity*

(g) the *new connection confirmation notice* sets out information for the purposes of clauses 3.1.4(e) and **Error! Reference source not found.**.

(h) the user has a contract with a shipper for the haulage of gas to the network section that the delivery point is located in provided that network section appears in the shipper register under clause 173

3.1.6. If new connection confirmation notice is not valid [RMR][68]

Upon receipt of a *new connection confirmation notice* which is not valid, then *the registry entity* must *immediately*:

(a) reject the *new connection confirmation notice*

(b) *acknowledge* the *network operator* that the *new connection confirmation notice* has been rejected and provide the reason for rejection

Note that the *MIRN* will not be created in *the registry entity*. If the *network operator* wishes to resubmit the *transaction*, a new the *new connection confirmation notice* will need to be sent to *the registry entity*

3.1.7. If new connection confirmation notice is valid [RMR][69]

Upon receipt of a valid *new connection confirmation notice* lodged under clause 3.1.3(2)(b), then *the registry entity* must:

(a) forthwith accept the *new connection notice*, and update *the REMCo registry* under clause 2.2.28(a); and

(b) *promptly acknowledge* the *network operator* that the *new connection confirmation notice* has been accepted; and

(c) *promptly* notify *the network operator* and *the current user*, of the standing data for the *delivery point*, by means of *aseXML*, under clause 2.2.30(1).

Notification format defined in [ICD: DSD 'Deliver standing data']

3.2. **MIRN Discovery**

3.2.1. Purpose of MIRN discovery process [RMR][70]

No [BS] requirement. Refer to [RMR] for context only.

3.2.2. MIRN must be set out (WA only) [RMR][71]

No [BS] requirement. Refer to [RMR] for context only.

3.2.3. Explicit informed consent required [RMR][72]

No [BS] requirement. Refer to [RMR] for context only.

3.2.4. The RMA to review MIRN discovery requests and explicit informed consents (WA only) [RMR][73]

(1) This clause 3.2.4 applies only in Western Australia.

(2) Each *network operator* must, at least once a month, provide *the RMA* with a report of all *MIRN discovery requests* it received in the period since its last report under this clause.

(3) The report under this clause is to be in a format agreed between *the RMA* and the *network operator* and must provide at least the following information for each *MIRN discovery request* received during the month:

(a) the *MIRN*; and

(b) the identity of the *user* lodging the request; and

(c) the *discovery address*.

(4) *The RMA* may from time to time inspect each *user's* records of *explicit informed consent* given under clause 3.2.3, to conduct a *negative assurance audit* of the *user's compliance* with that clause.

3.2.5. The MIRN discovery request [RMR][74]

No [BS] requirement. Refer to [RMR] for context only.

3.2.6. Network operator to respond to MIRN discovery request [RMR][75]

No [BS] requirement. Refer to [RMR] for context only.

3.2.7. Network operator to assist [RMR][76]

No [BS] requirement. Refer to [RMR] for context only.

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<div align="center">3.3. **Transfer**</div>

3.3.1. Transfer errors [RMR][77]

(1) If, due to a *transfer error* or otherwise, the wrong *user* is recorded in *the registry entity* as the *current user* for a *delivery point*, then *GRMS Operations* and the affected *users* must cooperate to correct this error by either:

(a) a *user* lodging an *error correction notice* under clause 2.2.9(2); or

(b) a *user* lodging a new *transfer request* in respect of the *delivery point* and entering into an agreement under clause 3.3.1(2), but to avoid doubt the correcting *transfer* must have only prospective effect.

(2) Subject to *participants'* obligations under clause 2.2.3 to lodge an *error correction notice* in respect of an incorrect *transfer request*, *participants* may enter into agreements if they cannot meet the requirements under clause 2.2.10 to lodge a valid *error correction notice*, to address or correct *transfers* which should have occurred but did not, or which occurred but should not have, or were otherwise in error (in this clause collectively **"transfer errors"**).

> Note: The purpose of clause 3.3.1(2) is to permit "off-market" correcting *transactions*. For example, if the *transfer day* is in error.

(3) *REMCo* and all involved *participants* to an agreement under clause 3.3.1(1) must provide such information in accordance with this document as is required to facilitate the agreement.

3.3.2. <No REMCo Requirement> Move in defined [RMR][78]

A **"move in"** occurs when:

(a) a *small use customer* commences occupation of a premises; and

(b) there is an associated change of *user* for the *delivery point* which supplies gas to the premises.

3.3.3. <No REMCo Requirement> Explicit informed consent [RMR][79]

(1) Before lodging a *transfer request* with *the registry entity*, an *incoming user* must obtain the transferring *customer's explicit informed consent* to the lodgement.

(2) By lodging a *transfer request* with *the registry entity*, the *incoming user* represents and warrants to *REMCo* that the *incoming user* has complied with clause 3.3.4(1).

(3) The *incoming user* makes the warranty in clause 3.3.4(2) anew on each day that a *requested transfer* is open.

(4) If, at any time before the *transfer* takes effect under clause 3.3.27(1), a transferring *customer's explicit informed consent* ceases to apply (for example because it is withdrawn), then the *incoming user* must withdraw the *transfer request* under clause 3.3.19.

(5) This clause does not apply where the *incoming user* is a *self-contracting user*.

3.3.4. Incoming user may lodge a transfer request [RMR][80]

(1) Subject to clause 3.3.3 and clause 3.3.4(2), an *incoming user* may lodge a *transfer request*, by means of *aseXML*, with *the registry entity* on any day

Notification format defined in [ICD: TFR-REQ 'Transfer Request']

(2) An *incoming user* that is a *self-contracting user* may only lodge a *transfer request* in respect of a delivery point at which it is the *customer*.

(3) By lodging a *transfer request* with *the registry entity*, the *self-contracting user* represents and warrants to *REMCo* that the *self-contracting user* is the *customer* for the *delivery point* to which the *transfer request* relates.

3.3.5. Transfer request [RMR][81]

(1) A *transfer request* which is lodged with *the registry entity* must specify at least the following information:

(a) the *MIRN*; and

(b) the *incoming user's GBO identification*; and

(c) the *earliest transfer day*; and

(d) whether the *requested transfer* is a *move in*

(2) By lodging a *transfer request* that is specified to be a *move in*, an *incoming user* represents and warrants to *REMCo* that the *transfer request* relates to a *move in*.

(3) An *incoming user* makes the warranty in clause 3.3.5(2) anew on each day that a *requested transfer* that is specified to be a *move in* is *open*.

(4) If a *transfer request* specifies that a *requested transfer* is a *move in*, and at any time before registration of the *requested transfer* under clause 2.2.29 the *incoming user* becomes aware that the *requested transfer* is not a *move in*, then the *incoming user* must withdraw the *transfer request* under clause 3.3.19.

(5) <No REMCo Requirement> The *network operator* must:

(a) use the unique identifier assigned by *the registry entity* to each *transfer request* as the *service order reference* for the purposes of clauses 3.5.1 and 3.5.13; and

(b) include the unique identifier on any invoice or other transaction sent to the *incoming user* in connection with the *transfer request*.

> Note that the *network operator* might be entitled to bill a *customer* in connection with a deemed request under clause 3.3.6.

3.3.6. Transfer request deemed to be a request for certain purposes [RMR][82]

No [BS] requirement. Refer to [RMR] for context only.

3.3.7. Requirements for valid transfer request [RMR][83]

Upon receipt of a *transfer request, the registry entity* must validate that:

(a) the *delivery point* exists within the *REMCo registry*; and

(b) the *MIRN status* is *commissioned* or *decommissioned*; and

(c) there is not, in relation to the *delivery point*, an *open transfer request*; and

(d) there is not, in relation to the *delivery point*, an *open error correction transaction*; and

(e) the *incoming user* is a *user* and has an *active GBO identification*; and

(f) except in the case of a *ROLR event*, the *incoming user* is not the *ROLR*; and

(g) if the *requested transfer* is a *move in* the *transferring customer* is a *small use customer, as determined* under *clause 8.4.1*; and

(h) if the *requested transfer* is a *move in*, the *delivery point* is *basic metered*; and

(i) the *earliest transfer day* is within the *allowable period* and:

> (i) if the *requested transfer* is not a *move in* - no earlier than 5 *business days* after the date on which the *transfer request* is received; and

> (ii) if the *requested transfer* is a *move-in* - no earlier than the date on which the *transfer request* is received.

(j) the user has a contract with a shipper for the haulage of gas to the network section that the delivery point is located in provided that network section appears in the shipper register under clause 173

3.3.8. If transfer request is not valid [RMR][84]

Upon receipt of a *transfer request* which is not valid, *the registry entity* must *immediately*:

(a) reject the *transfer request*; and

(b) *acknowledge* the *incoming user* to indicate that the *transfer request* has been rejected and provide the rejection reason.

3.3.9. If transfer request is valid [RMR][85]

(1) Upon receipt of a valid *transfer request*, *the registry entity* must:

(a) forthwith accept the *transfer request,* and mark that *transfer request* as 'requested' within the *registry entity*; and

(b) *immediately acknowledge* the *incoming user* to indicate that the *transfer request* has been accepted; and

(c) *immediately* notify the *incoming user,* by means of *aseXML*, that the *transfer request* has been accepted:

> *Notification format defined in [ICD: TFR-NOTF-IU 'Transfer Request Notification to Incoming user']*

> The *transfer request* notification must provide at least the following details:

> > (i) the *process time* of the *transfer request; and*

> > (ii) the *REMCo Initiating Receipt Id* of the *transfer request*.

(d) *immediately* notify, by *means* of *aseXML,* the *network operator* that the *transfer request* has been accepted:

> *Notification format defined in [ICD: TFR-NOTF-NO 'Transfer Request Notification to Network Operator']*

> The *transfer request* notification must provide at least the following details:

> > (i) the *MIRN*; and

> > (ii) the *GBO identification* of the *incoming user*; and

> > (iii) the *earliest transfer day*; and

(iv) whether the *requested transfer* is a *move in*; and

(v) the *process time* of the *transfer request; and*

(vi) the *REMCo Initiating Receipt Id* of the *transfer request*.

(e) *immediately* notify, by means of *aseXML,* the *current user* that the *transfer request* has been accepted:

> *Notification format defined in [ICD: TFR-NOTF-CU 'Transfer Request Notification to Current User']*

> The *transfer request* notification must provide at least the following details from the *transfer request*:

> (i) the *MIRN*; and

> (ii) the *earliest transfer day*; and

> (iii) the *process time* of the *transfer request; and*

> (iv) the *REMCo Initiating Receipt Id* of the *transfer request*; and

> (v) whether the *requested transfer* is a *move in.*

(f) if the *requested transfer* is not a *move in*, *immediately* suspend the *requested transfer* until lapse of the *transfer objection resolution period*.

(2) *The registry entity* will not notify the *current user* of the identity of an *incoming user*, however *the RMA* may do so where it judges, in its absolute discretion, that it is necessary to do so for the purpose of resolving any issue or *dispute*.

(3) *The RMA* may also, in its absolute discretion, for the purpose of resolving any issue or *dispute* in relation to the *transfer request*, provide the *incoming user* with any information *the RMA* receives from the *current user* in relation to the *transfer request*.

(4) The *current user* may provide information relating to a *transfer request* for a *delivery point* by lodging a "**change alert transaction**" with *the registry entity* at any time until the completion of the *transfer* under clause 3.3.27(1)(d)(i).

(a) The *change alert transaction* must be provided by means of *aseXML*, and must contain at least the following details:

> (i) the *REMCo Initiating Receipt Id* of the *transfer request* for which the information is being provided, as provided by *the registry entity* under clause 3.3.9(1)(e)(iv); and

> (ii) the *GBO identification* of the *user* lodging the *change alert transaction*; and

> (iii) the information relating to the *transfer request* which the *user* lodging the *change alert transaction* wishes to convey.

> *Notification format defined in [ICD: TFR-ALERT-CU 'Transfer Change Alert']*

(b) Upon receipt of a *change alert transaction*, *the registry entity* must validate that:

> (i) the *change alert transaction* corresponds to an open *transfer request*; and

> (ii) the change alert transaction is lodged by the current user, who has an active GBO identification; and

(iii) the *change alert transaction* includes information relating to the *transfer request,* which is to be conveyed to the *incoming user*.

(c) Upon receipt of a *change alert transaction* which is not valid, *the registry entity* must *immediately*:

(i) reject the *change alert transaction*; and

(ii) *acknowledge* the *current user* lodging the *change alert transaction* to indicate that the *change alert transaction* has been rejected and provide the rejection reason.

(d) Upon receipt of a valid *change alert transaction*, *the registry entity* must:

(i) forthwith accept the *change alert transaction,* and record the details within the *registry entity*; and

(ii) *immediately acknowledge* the *current user* lodging the *change alert transaction* to indicate that the *change alert transaction* has been accepted; and

(iii) *immediately* notify the *incoming user* of the *change alert transaction,* by means of *aseXML*, with a *change alert notification*:

Notification format defined in [ICD: TFR-ALERT-IU 'Transfer Change Alert to Incoming User']

The *change alert notification* must provide at least the following details:

A. the *REMCo Initiating Receipt Id* of the *transfer request*; and

B. the *GBO Identification* of the *user* which initiated the *change alert transaction*; and

C. the information relating to the *transfer request*, as provided in the *change alert transaction* under clause 3.3.9(4)(a)(iii); and

D. the *process time* of the *change alert transaction*.

For the avoidance of doubt, clause 3.3.9(4) does NOT refer to processing of information from a *current user* relating to a *transfer request* for a *delivery point* in any format other than *aseXML* as specified above. Specifically, the *GRMS Operations staff* and *the registry entity* will not be required under clause 3.3.9(4) to forward notices to the *incoming user* or generate *change alert transactions* for notices or negative *acknowledgements* received from the *current user*.

3.3.10. Network operator may object to a transfer other than a move in [RMR][86]

(1) Before *close of business* at the expiry of 2 *full business days* after the *process time* notified under clause 3.3.9(1)(d)(v), if the *requested transfer* is not a *move in*, a *network operator* may lodge a *transfer objection* with *the registry entity* on the ground that the *incoming user* has not entered into a *haulage contract* in respect of the *delivery point* and its *metering equipment* with the *network operator*.

(2) A *transfer objection* must be lodged with *the registry entity* by means of *aseXML*:

Notification format defined in [ICD: TFR-OBJ-NO 'Transfer Objection by Network Operator']

(3) A *transfer objection* under this clause must specify at least the following information:

(a) the *GBO identification* of the *network operator* lodging the *transfer objection*; and

(b) the *REMCo Initiating Receipt Id* of the *transfer request transaction* that it is objecting to, notified under clause 3.3.9(1)(d)(vi).

3.3.11. ROLR may object to a transfer other than a move in after the retailer of last resort scheme has been invoked [RMR][87]

   (1) This clause 3.3.11 applies only in Western Australia.

   (2) Before *close of business* at the expiry of 2 *full business days* after the *process time* notified under 3.3.9(1)(e)(iii), if:

   (a) gas is being delivered at the *delivery point* by a *ROLR*; and

   (b) the *requested transfer* is not a *move in*; and

   (c) the *transferring customer* has not paid the *ROLR fee,*

      then the *ROLR* may lodge a *transfer objection* with *the registry entity,* by means of *aseXML*:

      Notification format defined in [ICD: TFR-OBJ-ROLR 'Transfer Objection by ROLR']

   (3) A *transfer objection* lodged under clause 3.3.11(2) must specify at least the following information:

   (a) the *GBO identification* of the *ROLR* lodging the *transfer objection*; and

   (b) the *REMCo Initiating Receipt Id* of the *transfer request* to which it is objecting, notified under 3.3.9(1)(e)(iv).

   (4) By lodging a *transfer objection* under clause 3.3.11(2), the *ROLR* represents and warrants to *REMCo* that the *transferring customer* has not paid the *ROLR fee*.

   (5) The *ROLR* makes the warranty in clause 3.3.11(4) anew on each day that the *transfer objection* under this clause is *open*.

   (6) Subject to clause 3.3.12, *the registry entity* may accept and act upon a *transfer objection* under clause 3.3.11(2) without enquiring whether the *transferring customer* has or has not paid the *ROLR fee*.

3.3.12. Requirements for a valid transfer objection [RMR][88]

   Upon receipt of a valid *transfer objection*, *the registry entity* must validate that:

   (a) the *transfer objection* corresponds to an *open transfer request*; and

   (b) the *transfer objection* is lodged by either:

               (i) the *network operator,* who has an *active GBO identification*; or

               (ii) the *ROLR*, who has an *active GBO identification*, if the *ROLR* is the *current user*; and

   (c) the *transfer objection* is lodged within the time period allowed under clause 3.3.10(1), or clause 3.3.11(2) as applicable; and

   (d) either (as applicable):

               (i) the *network operator* is objecting on the ground specified in clause 3.3.10(1); or

               (ii) the *ROLR* is objecting on the ground specified in clause 3.3.11(2); and

(e) the *requested transfer* is not a *move in*.

3.3.13. If transfer objection is not valid [RMR][89]

Upon receipt of a *transfer objection* which is not valid, *the registry entity* must *immediately*:

(a) reject the *transfer objection*; and

(b) *acknowledge* the *participant* that lodged the *transfer objection* to indicate that the *transfer objection* has been rejected, and provide the rejection reason.

3.3.14. If transfer objection is valid [RMR][90]

Upon receipt of a valid *transfer objection*, *the registry entity* must:

(a) forthwith accept the *transfer objection*; and

(b) *immediately acknowledge* the *participant* that lodged the *transfer objection,* to indicate that the *transfer objection* has been accepted

(c) *immediately* notify, by means of *aseXML*, the *incoming user* and the *participant* that lodged the *transfer objection* that the *transfer objection* has been accepted.

> *Notification format defined in [ICD: TFR-OBJ-NOTF-OP 'Transfer Objection Notification to Objecting Participant']*

> *Notification format defined in [ICD: TFR-OBJ-NOTF-IU 'Transfer Objection Notification to Incoming User']*

> The *transfer objection notification* from *the registry entity* must specify at least the following information:

> > (i) the *REMCo Initiating Receipt Id* of the *transfer request* to which the *transfer objection* relates, notified under clause 3.3.9(1)(e)(iv) or 3.3.9(1)(d)(vi) (as applicable); and

> > (ii) the *REMCo Initiating Receipt Id* of this *transfer objection*; and

> > (iii) the *process time* of this *transfer objection.*

3.3.15. Withdrawal of transfer objection [RMR][91]

(1) Before *close of business* at the expiry of 3 *full business days* after the *process time* notified under clause 3.3.14(c)(iii), a *participant* that lodged a *transfer objection* may lodge a *transfer objection withdrawal notice* with *the registry entity.*

(2) A *transfer objection withdrawal notice* must be lodged with *the registry entity* by means of *aseXML,* and must specify at least the following information::

(a) the *GBO identification* of the *participant* lodging the *transfer objection withdrawal notice*; and

(b) the *REMCo Initiating Receipt Id* of the *transfer request* notified under clause 3.3.9(1)(e)(iv) or 3.3.9(1)(d)(vi) (as applicable); and

(c) the *REMCo Initiating Receipt Id* of the *transfer objection,* notified under clause 3.3.9(1)(c)(ii).

> *Notice format defined in [ICD: TFR-WOBJ 'Transfer Objection Withdrawal']*

(3) A *transfer objection withdrawal notice* lodged by a *participant* is valid only if:

(a) it corresponds to both:

(i) an *open transfer notice*; and

(ii) an *open transfer objection* previously lodged by the *participant,* who has an *active GBO identification*; and

(b) it is lodged within the time period allowed under clause 3.3.15(1).

3.3.16. If transfer objection withdrawal is not valid [RMR][92]

Upon receipt of a *transfer objection withdrawal notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *transfer objection withdrawal notice*; and

(b) *acknowledge* the *participant* that lodged the *transfer objection withdrawal notice* to indicate that the *transfer objection withdrawal notice* has been rejected and the rejection reason.

3.3.17. If transfer objection withdrawal is valid [RMR][93]

(1) Upon receipt of a valid *transfer objection withdrawal notice*, *the registry entity* must:

(a) forthwith accept the *transfer objection withdrawal notice*; and

(b) forthwith *cancel* the *transfer objection*; and

(c) *immediately acknowledge* the *participant* that lodged the *transfer objection withdrawal notice* that the *transfer objection withdrawal notice* has been accepted; and

(d) *immediately* notify, by *means* of *aseXML*, the *incoming user* and the *participant* that lodged the *transfer objection withdrawal notice* that the *transfer objection withdrawal notice* has been accepted and the corresponding the *transfer objection* has been withdrawn, which *notice* must provide at least the details of the *transfer objection* to which the *transfer objection withdrawal notice* relates.

Notification format defined in [ICD: TFR-WOB-NOTF-OP 'Transfer Objection Withdrawal Notification to Objecting Participant']

Notification format defined in [ICD: TFR-WOB-NOTF-IU 'Transfer Objection Withdrawal Notification to Incoming User']

3.3.18. If transfer objection not withdrawn [RMR][94]

If *the registry entity*:

(a) receives a valid *transfer objection* under clause 3.3.14; and

(b) does not receive a valid *transfer objection withdrawal notice* within the time period specified under clause 3.3.15(1),

then *the registry entity* must:

(c) before the start of the next *business day*, *cancel* the *requested transfer*; then

(d) *promptly* notify, by means of *aseXML,* the *incoming user*, the *current user* and the *network operator* that the *requested transfer* has been *cancelled*.

Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']

3.3.19. Incoming user may withdraw a transfer request [RMR][95]

(1) An *incoming user* may withdraw a *transfer request* for a *basic metered delivery point*, by means of *aseXML*, at any time before *the registry entity* issues a *transfer confirmation* under clause 3.3.27 by lodging a *transfer withdrawal notice* with *the registry entity*.

Notification format defined in [ICD: TFR-WREQ 'Transfer Withdrawal Notice']

(2) An *incoming user* may withdraw a *transfer request* for a *interval metered delivery point* at any time up to two *business days* before the *earliest transfer day* notified in the pending notification issued under clause 3.3.24 by lodging a *transfer withdrawal notice* with the *registry entity*.

(3) A provision of this document permitting or requiring the *incoming user* to withdraw, or *the registry entity* to *cancel*, a *transfer request* does not limit the generality of clause 3.3.19(1).

(4) A *transfer withdrawal notice* must specify at least the following information:

(a) the *GBO identification* of the *incoming user* lodging the *transfer withdrawal notice*; and

(b) the *REMCo Initiating Receipt Id* of the *transfer request* notified under clause 3.3.9(1)(c)(ii).

(5) A *transfer withdrawal notice* is valid only if it corresponds to an *open transfer request* previously lodged by the *incoming user*, who has an *active GBO identification*.

3.3.20. If transfer withdrawal notice is not valid [RMR][96]

Upon receipt of a *transfer withdrawal notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *transfer withdrawal notice*; and

(b) *acknowledge* the *participant* that lodged the *transfer withdrawal notice* to indicate that the *transfer withdrawal notice* has been rejected and provide the rejection reason.

3.3.21. If transfer withdrawal notice is valid [RMR][97]

Upon receipt of a valid *transfer withdrawal notice*, *the registry entity* must:

(a) forthwith accept the *transfer withdrawal notice*; and

(b) forthwith *cancel* the requested *transfer*; and

(c) *immediately acknowledge* the *incoming user* to indicate that the *transfer withdrawal notice* has been accepted

(d) *immediately* notify, by means of *aseXML*, the *current user*, the *incoming user* and the *network operator* that the *transfer withdrawal notice* has been accepted and that the *requested transfer* has been *cancelled*.

Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']

3.3.22. Marking a move in as pending [RMR][98]

If:

(a) *the registry entity* receives a valid *transfer request*; and

(b) the *requested transfer* is a *move in*,

then *the registry entity* must:

(c) mark the *move in* as *pending*; and

(d) *immediately* notify, by means of *aseXML,* the *incoming user*, the *current user* and the *network operator* that the *move in* is *pending*.

> *Notification format defined in [ICD: TFR-PEND-MI-NOTF 'Transfer Pending Notification for move-in']*

3.3.23. Network operator may be required to undertake special meter reading for a move in [RMR][99]

(1) <No REMCo Requirement> If a *requested transfer* is a *move in*, and:

(a) the *network operator* determines as a *reasonable and prudent person* that there is no prospect of determining a *deemed meter reading* under clause 4.2.6, for the *earliest transfer day;* and

(b) no *scheduled meter reading* is scheduled for the *earliest transfer day*; and

(c) no *special meter reading* has been requested (at least 2 *business days* prior to the *earliest transfer day*) by the *user*, for the *earliest transfer day*,

> then, the *network operator* must undertake a *special meter reading:*

(d) on the *earliest transfer day*; or

(e) if the *earliest transfer day* is less than 2 *business days* after *REMCo* gives notice under clause 3.3.22(d) that the transfer is *pending* ― within 2 *business days* after receipt of the notice.

(2) <No REMCo Requirement> If a *requested transfer* is a *move in* and either:

(a) a *scheduled meter reading* is scheduled for, or not more than 10 days before, the *earliest transfer day*; or

(b) a *special meter reading* has been requested (at least 2 *business days* prior to the *earliest transfer day*) for, or not more than 10 days before, the *earliest transfer day* by either:

> (i) the current user; or

> (ii) the incoming user; or

(c) the *network operator* is required to undertake a *special meter reading* under clauses 3.3.23(1)(d) or 3.3.23(1)(e);

> and the *network operator* fails to obtain a *meter reading* under any one of the clauses 3.3.23(2)(a),3.3.23(2)(b)(i),3.3.23(2)(b)(ii) or 3.3.23(2)(c), then, the *network operator* must *promptly notify* the *incoming user* of the failure.

(3) <No REMCo Requirement> If within 3 *business days* after *notifying* the *incoming user* under clause 3.3.23(2) the *network operator* receives a request from the *incoming user* to undertake a *special meter reading* , the *network operator* must undertake as soon as practicable a *special meter reading* for the *delivery point* the subject of the *requested transfer* 3.3.23(1).

(4) If *the registry entity* does not receive a *metering data* under clause 4.4.7 that contains an *actual value* or a *substituted value* within 7 *business days* of the *earliest transfer day*, then *the registry entity* must:

(a) forthwith *cancel* the *requested transfer* within *the registry entity*; and

(b) *immediately* notify, by means of *aseXML,* the *incoming user*, the *current user* and the *network operator* that the *requested transfer* has been *cancelled*.

> *Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']*

3.3.24. Marking a transfer other than a move in as pending [RMR][100]

(1) This clause 3.3.24 applies if:

(a) *the registry entity* receives a valid *transfer request*; and

(b) the *requested transfer* is not a *move in*.

(2) If *the registry entity*:

(a) does not receive a valid *transfer objection*; or

(b) receives a valid *transfer objection* and also a valid *transfer objection withdrawal notice*,

> then *the registry entity* must upon the lapse of the *transfer objection resolution period*:

(c) forthwith mark the *requested transfer* as *pending*; and

(d) *immediately* notify, by *means* of *aseXML,* the *incoming user*, the *current user* and the *network operator* that the *requested transfer* is *pending*.

> *Notification format defined in [ICD: TFR-PEND-NOTF 'Transfer Pending Notification']*

3.3.25. Transfer for basic metered delivery point requires meter reading that has generated an actual value [RMR][101]

(1) If a *requested transfer* for *basic metered delivery point* (which for the avoidance of doubt, is or is not a *move in*) is *pending* and *the registry entity* receives *metering data* under clause 4.4.11 that contains an *estimated value*, *the registry entity* must, within 24 hours, notify, by *means* of *aseXML,* the *incoming user* and *current user* that the *requested transfer* cannot take place until *the registry entity* receives an *actual value* for the *delivery point*.

> *Notification format defined in [ICD: TFR-MAR-NOTF 'Transfer Request Missing Actual Read Notification']*

(2) If a *requested transfer* <u>for a *basic metered delivery point*</u> which is not a *move in* is *pending* and *the registry entity* does not receive notification of an *actual value for* the *delivery point* within the *allowable period*, then within 24 hours of the lapse of the *allowable period the registry entity* must:

(a) *cancel* the *requested transfer*; and

(b) notify, by means of *aseXML,* the *incoming user*, *current user* and the *network operator* that the *requested transfer* is *cancelled*.

> *Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']*

3.3.26. Requirements for a transfer confirmation [RMR][102]

A *transfer confirmation,* issued under clause 3.3.27(1)(d)(ii)*,* must specify at least the following information:

(a) the *MIRN*; and

(b) the *transfer day*; and

(c) the *REMCo Initiating Receipt Id* of the *transfer request*

3.3.27. The transfer [RMR][103]

(1) If:

(a) a *transfer* <u>for a *basic metered delivery point*</u> is *pending*; and

(b) on *gas day D the registry entity* receives *metering data* under clause 4.4.11 that contains an *actual value* for the *delivery point*:

> (i) within *the allowable period*; and

> (ii) which would result in the *transfer day* being on or after the *earliest transfer day* and on or before the end of the *allowable period*,

then:

(c) the *transfer* takes effect as from the *transfer time*; and

(d) *the registry entity* must:

> (i) update *the REMCo standing data* under clause 2.2.29; and

> (ii) notify the *incoming user*, the *network operator* and the *current user* by means of *aseXML*, that the *transfer* is confirmed, which notice shall be referred to as a *transfer confirmation,* within the following time:

>> A. if the *metering data* received under clause 3.3.27(1)(b) is received before *close of business* of a *gas day* — by the end the *gas day*; and

>> B. otherwise — by the end of the following *gas day.*

>> *Notification format defined in [ICD: TFR-CONF-NOTF 'Transfer Confirmation']*

> (iii) notify, within 24 hours, by *means* of *aseXML*, the *network operator* and the *current user* of the *REMCo standing data* for the *delivery point* under clause 2.2.30(2); and

> *Notification format defined in [ICD: DSD 'Deliver standing data']*

(2) If

(a) a *transfer* is *pending* for an *interval metered delivery point*; and

(b) the *earliest transfer day* equals today's date

then:

(c) the *transfer* takes effect as from the *transfer time*; and *the registry entity* must forthwith notify the *incoming user*, the *network operator* and the *current user* by means of *aseXML*, that the *transfer* is confirmed, which notice shall be referred to as a *transfer confirmation,* by the commencement of the gas day:

Notification format defined in [ICD: TFR-CONF-NOTF 'Transfer Confirmation']

(3) <No REMCo Requirement> Upon receipt of the *transfer confirmation* under clause , the *network operator* must:

(a) with effect from the *transfer time*, record the *incoming user* in the *network information system* as the entity which is withdrawing gas at the *delivery point*; and

(b) within 24 hours provide to the *incoming user:*

(i) subject to clause **Error! Reference source not found.** the *MIRN standing data*, and the *meter standing data*; and

(ii) for a *basic-metered delivery point* only, the *index reading* from the *metering data the registry entity* received for the *delivery point* under clause 4.4.11 as referred to in clause 3.3.27(1)(b).

3.4. **Retailer of Last Resort Scheme**

3.4.1. Retailer of last resort scheme (WA only) [RMR][104]

(1) This clause 3.4.1 only applies in Western Australia.

(2) *REMCo* and *participants* must comply with the *ROLR scheme* in Western Australia.

(3) If REMCo, receives notice from the ROLR administrator that the ROLR administrator has invoked the ROLR scheme, the *RMA* will notify *the GRMS Operations staff,* by means of a *notice* as soon as practicable, which *notice* must include:

(a) the *GBO Identification* of the *ROLR event user*; and

(b) *ROLR transfer day*, which for the avoidance of doubt, must not be retrospective (i.e. the *ROLR transfer day* must be on or after the date on which the notice is processed by the *GRMS Operations Staff*)

Notification format defined in [ICD: NOT-ROLR 'Notification of invocation of ROLR scheme']

(4) If *the RMA* receives notice from the *ROLR administrator* that the *ROLR administrator* has invoked the *ROLR scheme*, *the RMA* must:

(a)   immediately *notify* each *participant* that:

(i)   the *ROLR scheme* has been invoked; and

(ii)   *REMCo's information system* will be closed under this rule 104; and

(iii)   *REMCo* will cease receiving all transactions, from a specified time and date; and

(b)   on the *ROLR transfer day* notified by the *ROLR administrator* the *GRMS Operations staff* must close, and, cease receiving all *transactions* to, *REMCo's* information system, (which for the purposes of this document constitutes *permitted downtime*); and

(c)   *The GRMS Operations staff,* must during the *permitted downtime* under clause 3.4.1(4)(b), and subject to clause 2.1.7(3):

(i) *cancel* all open *requested transfers* to or from the *ROLR event user*; and

(ii) *cancel* any *open error correction notice* that had been initiated by the *ROLR event user* ~~and provide the reason for the~~ *~~cancellation~~*; and

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(iii) with effect from the *ROLR transfer time*, amend the *REMCo registry* for each *delivery point* at which the *customer* is a *small use customer* where the *ROLR event user* is the *current user*, so that the *ROLR* is recorded as the *current user;*

> {Note: REMCo will cancel all open requested transfers and error correction notices via the use of normal aseXML transactions, as applicable under rules 97 and 42 respectively, prior to REMCo issuing a ROLR event notification to the Market. This is so that the network operator can carry out the required background processes to facilitate the ROLR process. Full details regarding the implementation of the ROLR process are contained in the Business Specification document.}

and

(d) *The GRMS Operations staff* must use reasonable endeavours to end the *permitted downtime* under clause **Error! Reference source not found.**, and re-open *REMCo's information system* as soon as practicable.

(5) As soon as reasonably practicable after re-opening *REMCo's information system*, and in any event within 1 *business day* of the *ROLR transfer day*, the *GRMS Operations staff* must:

(a) notify all *participants* of the *ROLR transfer day,* by means of a *notice*; and

> *Notification format defined in [ICD: NOT-ROLR-TD 'Notification of ROLR transfer day']*

(b) provide to each *participant*, by means of a *bulk electronic file*, a report of all *cancelled requested transfers* involving the *participant* and the *ROLR event user*;

> *Notification format defined in [ICD: PROV-ROLR-CNCL-TX 'Provision of transactions cancelled during a ROLR event']*

(c) provide to each *network operator,* by means of a *bulk electronic file,* a list all of the *network operator's delivery points* which were *transferred* to the *ROLR* under clause **Error! Reference source not found.**; and

> *Notification format defined in [ICD: PROV-ROLR-TFR 'Provision of MIRNs transferred to ROLR']*

(d) provide the *ROLR*, in accordance with clause 2.1.8, with the *bulk REMCo standing data* for the *delivery points* that were transferred to the *ROLR* under clause rule 3.4.1(4)(c)(i).

> *Notification format defined in [ICD: PROV-BSD Provision of Bulk REMCo Standing Data]*

(6) <No REMCo Requirement> Within 5 *business day*s after receiving notice under clause 3.4.1(5)(c), a *network operator* must for each *delivery point* specified in the notice:

(a) with effect from the *ROLR transfer time*, record the *ROLR* in the *network information system* as the entity which is withdrawing gas at the *delivery point*; and

(b) *promptly* provide the *ROLR* with the *MIRN standing data* and the *meter standing data* for each *delivery point*; and

(c) *promptly* provide the *ROLR* and *the data estimation entity* with the *estimated value* calculated by the *network operator* for the *ROLR transfer day*.

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(7) For the purpose of clause 3.4.1(6), clauses 3.3.3, 3.3.10(1) and 3.3.27(1) do not apply, and *REMCo's information system* may use an *estimated value* for all purposes connected with a *transfer* to the *ROLR*.

(8) As soon as practicable after receiving the *estimated value* under clause 3.4.1(6)(c), the *GRMS Operations staff* must provide each *participant* with a list of that *participant's delivery points* and the information that relates to each *delivery point* in the same format as that described in clause 2.1.8.

(9) *Requested transfers* which are cancelled under clause **Error! Reference source not found.**, will not be subject to clause 3.3.25(2)(b), I.e. No *aseXML* notification will be sent to affected *participants* that the *requested transfer* is *cancelled*.

(10) *Error correction transaction* which are cancelled under clause **Error! Reference source not found.**, will not be subject to clause 2.2.19(2), I.e. No *aseXML* notification will be sent to affected *participants* that the *error correction transaction* is *cancelled*.

3.5. **Disconnection and reconnection of delivery points**

3.5.1. Disconnecting delivery points [RMR][105]

No [BS] requirement. Refer to [RMR] for context only.

3.5.2. If disconnection notice is not valid [RMR][106]

No [BS] requirement. Refer to [RMR] for context only.

3.5.3. If disconnection notice is valid [RMR][107]

(1) <No REMCo Requirement> Upon receipt of a valid *disconnection notice*, subject to clause 3.5.1, a *network operator* must:

(a) accept the *disconnection notice*; and

(b) *immediately* notify the *user* that the *disconnection notice* has been accepted.

(2) <No REMCo Requirement> Subject to clause 3.5.4, a *network operator* must (subject to law) at the same time, within 2 *business days* after receiving a valid *disconnection notice, disconnect* and undertake a *meter reading* of, and obtain the *meter reading data* for, the *delivery point*.

(3) Within 2 *business days* of disconnecting a *delivery point* under clause 3.5.1 or 3.5.3(2), the *network operator* must:

(a) calculate the *actual value* for the *delivery point* using the information obtained under rule 3.5.3(2); and

(b) change the *MIRN status* in its *MIRN database* to *decommissioned*; and

(c) notify the *user* that the *MIRN* is *decommissioned* and provide the *user* with the *metering data* in accordance with clause 4.4.9, for the *meter reading* undertaken in accordance with clause 3.5.3(2); and

(d) lodge a *disconnection confirmation notice*, by *means* of *aseXML*, with *the registry entity*; and

> *Notification format defined in [ICD: DIS-CON 'Disconnection confirmation notice']*

(e) provide the *registry entity* with the *metering data* in accordance with clause 4.4.11*, by means of aseXML,* for the *meter reading* undertaken in accordance with clause 3.5.3(2).

> *Notification format defined in [ICD: BSCMR 'Basic Meter Read Data' or ICD: INTMR 'Interval Meter Read Data']*

3.5.4. Disconnection withdrawal notice [RMR][108]

No [BS] requirement. Refer to [RMR] for context only.

3.5.5. If disconnection withdrawal notice is not valid [RMR][109]

No [BS] requirement. Refer to [RMR] for context only.

3.5.6. If disconnection withdrawal notice is valid [RMR][110]

No [BS] requirement. Refer to [RMR] for context only.

3.5.7. There is no [RMR][111]

3.5.8. Disconnection confirmation notice [RMR][112]

A *disconnection confirmation notice* must specify at least the following information:

(a) the *MIRN*; and

(b) the *GBO identification* of the *network operator* lodging the *disconnection confirmation notice*; and

(c) the date on which the *MIRN* became *disconnected*.

3.5.9. Requirements for valid disconnection confirmation notice [RMR][113]

Upon receipt of a *disconnection confirmation notice*, *the registry entity* must validate that:

(a) the *delivery point* exists within *the registry entity*; and

(b) the *disconnection confirmation notice* is lodged by the *network operator,* who has an *active GBO identification*; and

(c) the *MIRN status* is not *deregistered*; and

(d) the date on which the *disconnection confirmation notice* is received is on or after the date on which the MIRN became *disconnected*; and

(e) there is no *open disconnection transaction* or *open permanent removal transaction* for the *delivery point;* and

(f) the date on which the *delivery point* was *disconnected* did not occur more than 425 days before the date on which the *disconnection confirmation notice* is processed by *the registry entity*.

3.5.10. If disconnection confirmation notice is not valid [RMR][114]

Upon receipt of a *disconnection confirmation notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *disconnection confirmation notice; and*

(b) *acknowledge* the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been rejected and provide the rejection reason.

3.5.11. If disconnection confirmation notice is valid and REMCo does not receive valid metering data [RMR][115]

(1) Upon receipt of a valid *disconnection confirmation notice, the registry entity* must:

(a) *promptly acknowledge* the *network operator* to indicate that the *disconnection confirmation notice* has been accepted; and

(b) forthwith determine if an *open reconnection notice* exists within *the registry entity* for the same *delivery point* and if the date of *reconnection* is the same as the date of *disconnection* in the *disconnection confirmation notice* ("**concurrent disconnection reconnection**")*,* and if so:

(i) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been cancelled and the reason for the cancellation; and

Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']

(ii) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *reconnection confirmation notice* that the *reconnection confirmation notice* has been cancelled and the reason for the cancellation; and

Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']

(c) forthwith, subject to clause 3.5.11(1)(b), check whether an *actual value* has been received by *the data estimation entity*

(i) in accordance with clause 3.5.3(3)(e) or clause **Error! Reference source not found.** (as applicable); and

(ii) where the date of the *meter reading* is equal to the date on which the *MIRN* became *decommissioned* under clause 3.5.8(c).

(2) Subject to clause 3.5.11(1)(b), if an *actual value* has not been received by *the data estimation entity* under clause 3.5.11(1)(c)*,* then *the registry entity* must 'wait' until either:

(a) an *actual value* is received which is valid under clause 3.5.11(1)(c); or

(b) no *actual value* is received which is valid under clause 3.5.11(1)(c) within the valid timeframe under clause 3.5.11(3) or clause 3.5.11(4).

(3) Subject to clause 3.5.11(1)(b), if an *actual value* is not received by *the data estimation entity* under clause 3.5.11(1)(c) within 2 *business days* of *the registry entity* receiving a valid *disconnection confirmation notice* in respect of the same *delivery point*, then *the registry entity* must *promptly* issue a 'reminder notice' to the *network operator* by means of *aseXML*.

Notification format defined in [ICD: DIS-MR-ALT 'No Disconnection meter reading alert']

(4) Subject to clause 3.5.11(1)(b), if an *actual value* is not received by *the data estimation entity* under clause 3.5.11(1)(c) within 7 *business days* of *the registry entity* receiving a valid *disconnection confirmation notice* in respect of the same *delivery point*, then *the registry entity* must:

(a) as soon as practicable *cancel* the *disconnection confirmation notice* within *the registry entity*; and

(b) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been cancelled and the reason for the cancellation.

> *Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']*

3.5.12. If disconnection confirmation notice is valid and valid metering data is received [RMR][116]

(1) Upon receipt of a valid *disconnection confirmation notice*, *the registry entity* must*:*

(a) forthwith accept the *disconnection confirmation notice*; and

(b) *promptly acknowledge* the *network operator* to indicate that the *disconnection confirmation notice* has been accepted; and

(c) forthwith determine if an *open reconnection notice* exists within *the registry entity* for the same *delivery point* and if the date of *reconnection* is the same as the date of *disconnection* in the *disconnection confirmation notice* ("**concurrent disconnection reconnection**")*,* and if so:

> (i) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been cancelled and the reason for the cancellation; and
>
> *Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']*
>
> (ii) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *reconnection confirmation notice* that the *reconnection confirmation notice* has been cancelled and the reason for the cancellation.
>
> *Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']*

(2) Subject to clause 3.5.12(1)(c), if an *actual value* is already held in *the data estimation entity* in accordance with clause 3.5.3(3)(e) or clause **Error! Reference source not found.** (as applicable); and where the date of the *meter reading* is equal to the date on which the *MIRN* became *decommissioned* under clause 3.5.8(c), then *the registry entity* must *promptly*:

(a) update the *REMCo registry* under clause 2.2.28(b); and

(b) notify, *by means of aseXML*, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1).

> *Notification format defined in [ICD: DSD 'Deliver standing data']*

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(3) Subject to clause 3.5.12(1)(c), upon receipt of a valid *disconnection confirmation notice*, where an *actual value* referred to in clause 3.5.12(2) is subsequently lodged with *the data estimation entity* within the time period specified in 3.5.11(4), *the registry entity* must, within 24 hours:

(a) update the *REMCo registry* under clause 2.2.28(b); and

(b) notify, by means of *aseXML*, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1)

Notification format defined in [ICD: DSD 'Deliver standing data']

3.5.13. Reconnecting delivery points [RMR][117]

No [BS] requirement. Refer to [RMR] for context only.

3.5.14. If reconnection notice is not valid [RMR][118]

No [BS] requirement. Refer to [RMR] for context only.

3.5.15. If reconnection notice is valid [RMR][119]

(1) <No REMCo Requirement> Upon receipt of a valid *reconnection notice*, subject to clause 3.5.13, a *network operator* must:

(a) forthwith accept the *reconnection notice*; and

(b) *immediately* notify the *user* that the *reconnection notice* has been accepted.

(2) <No REMCo Requirement> A *network operator* must (subject to law) at the same time, within 2 *business days* after receiving a valid *reconnection notice*, *reconnect* the *delivery point* and undertake a *meter reading* of, and obtain the *meter reading data* for, the *delivery point*.

(3) Within 2 *business days* of *reconnecting* a *delivery point* under clause 3.5.13 or 3.5.15(2), the *network operator* must:

(a) calculate the *actual value* for the *delivery point* using the information obtained under rule 3.5.15(2); and

(b) change the *MIRN status* in its *MIRN database* to *commissioned*; and

(c) notify the *user* that the MIRN is *commissioned* and provide the *user* with the *metering data* in accordance with clause 4.4.9 for the *meter reading* undertaken in accordance with clause 3.5.15(2).

(d) lodge a *reconnection confirmation notice*, by *means* of *aseXML*, with *the registry entity*; and

Notification format defined in [ICD: REC-CON 'Reconnection confirmation notice']

(e) provide *REMCo* with the *metering data, by means of aseXML,* in accordance with clause 4.4.11 for the *meter reading* undertaken in accordance with clause 3.5.15(2).

Notification format defined in [ICD: BSCMR 'Basic Meter Read Data' or ICD: INTMR 'Interval Meter Read Data']

3.5.16. Reconnection confirmation notice [RMR][120]

A *reconnection confirmation notice* must specify at least the following information:

(a) the *MIRN;* and

(b) the *GBO identification* of the *network operator* lodging the *reconnection confirmation notice*; and

(c) the date on which the *delivery point* was *reconnected.*

3.5.17. Requirements for valid reconnection confirmation notice [RMR][121]

Upon receipt of a *reconnection confirmation notice* under clause 3.5.16, *the registry entity* must validate that:

(a) the *delivery point exists* within the *REMCo registry*; and

(b) the *reconnection confirmation notice* is lodged by the *network operator,* who has an *active GBO identification*; and

(c) the *MIRN status* is not *deregistered*; and

(d) the date on which the *reconnection confirmation notice* is received is on or after the date on which the *delivery point* was *reconnected* ; and

(e) there is no *open reconnection transaction* or *permanent removal transaction* for the delivery point; and

(f) the date on which the *delivery point* was *reconnected* did not occur more than 425 days before the date on which the *reconnection confirmation notice* is processed by *the registry entity*.

3.5.18. If reconnection confirmation notice is not valid [RMR][122]

Upon receipt of a *reconnection confirmation notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *reconnection confirmation notice*; and

(b) *acknowledge* the *network operator* to indicate that the *reconnection confirmation notice* has been rejected and provide the rejection reason

3.5.19. If reconnection confirmation notice is valid and REMCo does not receive valid metering data [RMR][123]

 (1) Upon receipt of a valid *reconnection confirmation notice*, *the registry entity* must:

(a) *promptly acknowledge* the *network operator* to indicate that the *reconnection confirmation notice* has been accepted; and

(b) forthwith determine if an *open disconnection notice* exists within *the registry entity* for the same *delivery point* and if the date of *disconnection* is the same as the date of *reconnection* in the *reconnection confirmation notice* ("**concurrent disconnection reconnection**")*,* and if so:

> (i) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *reconnection confirmation notice* that the *reconnection confirmation notice* has been cancelled and the reason for the cancellation; and
>
> *Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']*

(ii) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been cancelled and the reason for the cancellation; and

Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']

(c) forthwith, subject to clause 3.5.19(1)(b), check whether an *actual value* is held in *the data estimation entity*

(i) in accordance with clause 3.5.15(3)(e); and

(ii) where the date of the *meter reading* is equal to the date on which the *delivery point* was *reconnected* under clause 3.5.16(c).

(2) Subject to clause 3.5.19(1)(b), if an *actual value* has not been received by *the data estimation entity* under clause 3.5.19(1)(c), then *the registry entity* must 'wait' until either:

(a) an *actual value* is received which is valid under clause 3.5.19(1)(c); or

(b) no *actual value* is received which is valid under clause 3.5.19(1)(c) within the valid timeframe under clause 3.5.19(3) or clause 3.5.19(4).

(3) Subject to clause 3.5.19(1)(b), if an *actual value* is not received by *the data estimation entity* under clause 3.5.19(1)(c) within 2 *business days* of *the registry entity* receiving a valid *reconnection confirmation notice* in respect of the same *delivery point*, then *the registry entity* must issue a 'reminder notice' to the *network operator* by means of *aseXML*.

Notification format defined in [ICD: REC-MR-ALT 'No Reconnection meter reading alert']

(4) Subject to clause 3.5.19(1)(b), if an *actual value* is not received by *the data estimation entity* under clause 3.5.19(1)(c) within 7 *business days* of *the registry entity* receiving a valid *reconnection confirmation notice* in respect of the same *delivery point*, then *the registry entity* must:

(a) as soon as practicable cancel the *reconnection confirmation notice* within *the registry entity*; and

(b) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *reconnection confirmation notice* that the *reconnection confirmation notice* has been cancelled and the reason for the cancellation.

Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']

3.5.20. If reconnection confirmation notice is valid and valid metering data is received [RMR][124]

(1) Upon receipt of a valid *reconnection confirmation notice*, *the registry entity* must *promptly*:

(a) accept the *reconnection confirmation notice*; and

(b) *acknowledge* the network operator to indicate that the reconnection confirmation notice has been accepted; and

(c) forthwith determine if an *open disconnection notice* exists within *the registry entity* for the same *delivery point* and if the date of *disconnection* is the same as the date of

reconnection in the *reconnection confirmation notice* ("**concurrent disconnection reconnection**")*,* and if so:

(i) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *reconnection confirmation notice* that the *reconnection confirmation notice* has been cancelled and the reason for the cancellation; and

Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']

(ii) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *disconnection confirmation notice* that the *disconnection confirmation notice* has been cancelled and the reason for the cancellation; and

Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']

(2) Where an *actual value* is already held in *the data estimation entity* in accordance with clause 3.5.15(3)(e), and where the date of the *meter reading* is equal to the date on which the *delivery point* was *reconnected* under clause 3.5.16(c), then *the registry entity* must *promptly*:

(a) update the *REMCo registry* under clause 2.2.28(c); and

(b) notify, by means of *aseXML*, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1)

Notification format defined in [ICD: DSD 'Deliver standing data']

(3) Subject to clause 3.5.20(1)(c), upon receipt of a valid *reconnection confirmation notice* lodged under clause 3.5.15(3)(d), where an *actual value* referred to in clause 3.5.20(1) is subsequently lodged within the time period specified in 3.5.19(4), *the registry entity* must, within 24 hours:

(a) update the *REMCo registry* under clause 2.2.28(c); and

(b) notify, by means of *aseXML*, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1)

Notification format defined in [ICD: DSD 'Deliver standing data']

3.6. **Permanently removing delivery points and deregistering MIRNs**

3.6.1. Permanently removing delivery points [RMR][125]

No [BS] requirement. Refer to [RMR] for context only.

3.6.2. If permanent removal request is not valid [RMR][126]

No [BS] requirement. Refer to [RMR] for context only.

3.6.3. If permanent removal request is valid [RMR][127]

(1) <No REMCo Requirement> Upon receipt of a valid *permanent removal request*, subject to clause 3.6.1, a *network operator* must (subject to law):

(a) forthwith accept the *permanent removal request*; and

(b) *immediately* notify the *user* that the *permanent removal request* has been accepted; and

(c) *permanently remove* the *delivery point* and, if there is a *meter* installed at the *delivery point*, undertake a *meter reading* of, and obtain the *meter reading data* for, the *delivery point* on the later of:

(i) the date requested by the *user* under clause 3.6.1; or

(ii) 5 *business days* after receiving the *permanent removal request*.

(2) As soon as practicable after a *delivery point* has been *permanently removed* under clause 3.6.1 or clause 3.6.3(1)(c), and in any event within 5 *business days*, the *network operator* must:

(a) calculate the *actual value* for the *delivery point* using the information obtained under clause 3.6.3(1)(c); and

(b) change the *MIRN status* to *deregistered*; and

(c) notify the *user* that the *delivery point* has been *permanently removed*; and

(d) lodge a *permanent removal confirmation notice*, by *means* of *aseXML*, with *the registry entity*; and

Notification format defined in [ICD: PR-CON 'Permanent removal confirmation notice']

(e) provide *the registry entity* and the *user* with the *metering data*, by means of *aseXML*, from as applicable:

(i) the *meter reading* undertaken in accordance with clause 3.6.3(1)(c); or

(ii) if there was no meter installed at the *delivery point*, the *meter reading* which was undertaken under clause 3.5.3(2) when the meter was removed.

Notification format defined in [ICD: BSCMR 'Basic Meter Read Data' or ICD: INTMR 'Interval Meter Read Data']

3.6.4. Permanent removal confirmation notice [RMR][128]

A *permanent removal confirmation notice* must specify at least the following information:

(a) the *MIRN*; and

(b) the *GBO identification* of the *network operator* lodging the *permanent removal confirmation notice*; and

(c) the date on which the *delivery point was permanently removed*.

3.6.5. Requirements for valid permanent removal confirmation notice [RMR][129]

Upon receipt of the *permanent removal confirmation notice* under clause 3.6.3(2)(d) *the registry entity* must validate:

(a) the *delivery point* exists within the *REMCo registry*; and

(b) the *permanent removal confirmation notice* is lodged by the *network operator*, who has an *active GBO identification*; and

(c) the *MIRN status* is *commissioned* or *decommissioned*; and

(d) the date on which the *permanent removal confirmation notice* is received is on or after the date on which the *delivery point* was *permanently removed*; and

(e) the date on which the *delivery point* was *permanently removed* did not occur more than 425 days before the date on which the *permanent removal confirmation notice* is processed by *the registry entity*.

3.6.6. If permanent removal confirmation notice is not valid [RMR][130]

Upon receipt of a *permanent removal confirmation notice* which is not valid, *the registry entity* must *immediately*:

(a) reject the *permanent removal confirmation notice*; and

(b) *acknowledge* the *network operator* that the *permanent removal confirmation notice* has been rejected and provide the rejection reason.

3.6.7. Permanent removal confirmation notice is valid and REMCo does not receive valid metering data [RMR][131]

(1) Upon receipt of a valid *permanent removal confirmation notice*, *the registry entity* must:

(a) *promptly acknowledge* the *network operator* to indicate that the *permanent removal confirmation notice* has been accepted; and

(b) forthwith check whether an *actual value* is held in *the data estimation entity*

        (i) in accordance with clause 3.6.3(2)(e); and

        (ii) where the date of the *meter reading* is equal to the date on which the *delivery point* was *permanently removed* under clause 3.6.4(c),

(2) If an *actual value* has not been received by *the data estimation entity* under clause 3.6.7(1), *the registry entity* must 'wait' until either:

(a) an *actual value* is received which is valid under clause 3.6.7(1); or

(b) no *actual value* is received which is valid under clause 3.6.7(1) within the valid timeframe under clause 3.6.7(3) or clause 3.6.7(4).

(3) If an *actual value* has not been received by *the data estimation entity* under clause 3.6.7(1) within 5 *business days* of *the registry entity* receiving a valid *permanent removal confirmation notice* in respect of the same *delivery point*, then *the registry entity* must issue a 'reminder notice' to the *network operator* by means of *aseXML*.

> *Notification format defined in [ICD: PR-MR-ALT 'No permanent removal meter reading alert']*

(4) If *the registry entity* does not receive an *actual value* referred to in clause 3.6.7(1) within 10 *business days* of the date the valid *disconnection confirmation notice* is received by *the registry entity*, then *the registry entity* must:

(a) as soon as practicable *cancel* the *disconnection confirmation notice* within *the registry entity*; and

(b) *promptly* notify, by means of *a notice*, the *network operator* that lodged the *permanent removal confirmation notice* that the *permanent removal confirmation notice* has been cancelled and the reason for the cancellation

> *Notification format defined in [ICD: PR-CAN-NOTF 'Permanent Removal Cancelled Notification']*

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3.6.8. If permanent removal confirmation notice is valid and valid metering data is received [RMR][132]

(1) Upon receipt of a valid *permanent removal confirmation notice*, *the registry entity* must*:*

(a) forthwith accept the *permanent removal confirmation notice*; and

(b) *promptly acknowledge* the *network operator* to indicate that the *permanent removal confirmation notice* has been accepted.

(2) Where an *actual value* is already held in the *data estimation entity* in accordance with clause 3.6.3(2)(e); and where the date of the *meter reading* is equal to the date on which the *delivery point* was *permanently removed* under clause 3.6.4(c), then *the registry entity* must:

(a) forthwith update the *REMCo registry* under clause 2.2.28(d); and

(b) forthwith cancel all *open transactions* in respect of the *delivery point*, as specified under clause 3.6.9(1); and

(c) *promptly* notify, by means of aseXML, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1).

Notification format defined in [ICD: DSD 'Deliver standing data']

(3) Upon receipt of a valid *permanent removal confirmation notice*, where an *actual value* as referred to in 3.6.8(1) is subsequently lodged within the time period specified in 3.6.7(4), *the registry entity* must:

(a) forthwith update the *REMCo registry* under clause 2.2.28(d); and

(b) forthwith *cancel* all *open transactions* in respect of the *delivery point*, as specified under clause 3.6.9(1); and

(c) within 24 hours notify, by means of *aseXML*, relevant *participants* of the update to the *REMCO standing data* for the *delivery point* under clause 2.2.30(1).

Notification format defined in [ICD: DSD 'Deliver standing data']

3.6.9. Effect of permanent removal [RMR][133]

(1) Upon accepting a valid *permanent removal confirmation notice* under clause 3.6.8, *the registry entity* must *cancel* all *open transactions* in respect of the *MIRN* and advise all affected parties of the cancellation by means of *aseXML* as follows, and as specified under clause 3.6.8(2)or 3.6.8(3) (as applicable).

Notification format defined in [ICD: ECNET-CAN-NOTF 'Error Correction Cancellation Notification']

Notification format defined in [ICD: DIS-CAN-NOTF 'Disconnection Cancelled Notification']

Notification format defined in [ICD: REC-CAN-NOTF 'Reconnection Cancelled Notification']

Notification format defined in [ICD: TFR-CAN-NOTF 'Transfer Cancellation Notification']

*Notification format defined in [ICD: DCN-CAN-NOTF 'Data Change Notice
Cancelled Notification']*

*Notification format defined in [ICD: PR-CAN-NOTF 'Data Change Notice
Cancelled Notification']*

(2) A *MIRN* with a *MIRN status* of *deregistered* must never be given another *MIRN status*.

This clause is intended to render irreversible the process of *permanently removing* a *delivery point* and *deregistering* a *MIRN*. If gas supply is to be recommenced at the *delivery address*, a new *MIRN* must be assigned. If, however, the *permanent removal* transaction has been carried out erroneously, then this can be corrected within *the registry entity* under clause 2.2.9(3).

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4. Metering

4.1. Metering Equipment

4.1.1. Network operator must provide meters [RMR][134]

No [BS] requirement. Refer to [RMR] for context only.

4.1.2. Basic meters [RMR][135]

No [BS] requirement. Refer to [RMR] for context only.

4.1.3. Units for basic meters [RMR][136]

No [BS] requirement. Refer to [RMR] for context only.

4.1.4. Interval meters [RMR][137]

No [BS] requirement. Refer to [RMR] for context only.

4.1.5. Network operator to identify sites which consumed more than 10 TJ/a (WA only) [RMR][138]

No [BS] requirement. Refer to [RMR] for context only.

4.1.6. The *RMA* to determine whether interval meter must be fitted at a basic metered site (WA only) [RMR][139]

No [BS] requirement. Refer to [RMR] for context only.

4.1.7. The *RMA* to determine whether a delivery point may be converted to a basic metered delivery point as a result of a reduction in gas usage (WA only) [RMR][140]

No [BS] requirement. Refer to [RMR] for context only.

4.1.8. Metering upgrades [RMR][141]

No [BS] requirement. Refer to [RMR] for context only.

4.2. Meter reading requirements

4.2.1. Interval meters to be read daily [RMR][142]

No [BS] requirement. Refer to [RMR] for context only.

4.2.2. Basic meters to be read in accordance with meter reading schedule [RMR][143]

No [BS] requirement. Refer to [RMR] for context only.

4.2.3. Network operator to establish meter reading schedules [RMR][144]

No [BS] requirement. Refer to [RMR] for context only.

4.2.4. Amendments to meter reading schedule [RMR][145]

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No [BS] requirement. Refer to [RMR] for context only.

4.2.5. Special meter readings (basic meters only) [RMR][147]

No [BS] requirement. Refer to [RMR] for context only.

4.2.6. Deemed meter reading [RMR][148]

No [BS] requirement. Refer to [RMR] for context only.

4.2.7. Basic meters to have at least one meter reading that generates an actual per year [RMR][149]

No [BS] requirement. Refer to [RMR] for context only.

4.2.8. Meter reading activities by another entity [RMR][150]

No [BS] requirement. Refer to [RMR] for context only.

4.3. **Gate point metering data**

4.3.1. Pipeline operators to provide physical gate point metering data [RMR][151]

No [BS] requirement. Refer to [RMR] for context only.

4.3.2. Network operator to provide gate point metering data to the *data estimation entity* [RMR][152]

(1) Subject to clause 4.3.2(5) the *network operator* must:

(a) aggregate the *physical gate point metering data* provided under clause 4.3.1, for the *gas day* and for each hour in the *gas day*, in each case across all *physical gate points* associated with the *sub-network* (the aggregated hourly and daily data being the **"gate point metering data"**); and

(b) provide to the *data estimation entity* as soon as reasonably practicable after receiving the *physical gate point metering data* from the *pipeline operator* under rule 4.3.1, but in any event, no later than 3.5 hours after the end of the *gas day*:

(i) the gate point metering data; or

(ii) an estimate under rule 4.3.2(2) of the gate point metering data.

GPMD: *Gate Point Metering Data*

Gate Point Identifier

Gas day

Hourly Energy

Total Daily Energy

Read Type Flag

Notification format defined in [ICD][GPMD – Gate Point Metering Data].

(2) If for any reason (including the operation of clause 4.3.1 the *network operator* does not receive the *physical gate point metering data* within the time specified in clause 4.3.1, then the *network operator* must as a *reasonable and prudent person* estimate the *gate*

point metering data, for the *gas day* and each hour in the *gas day*, for each *gate point* and provide the estimate to *the data estimation entity* under the clause 4.3.2(1).

(3) *If* the *network operator* receives amended *physical gate point metering data* under clause 4.3.1 *at any time* (including if the data is refined or verified), the *network operator* must as soon as reasonably practicable:

(a) aggregate the amended *physical gate point metering data* under clause 4.3.2(1)(a); and

(b) provide to the *data estimation entity* the amended *gate point metering data* determined under clause 4.3.2(3)(a)

(4) If the *network operator* receives *physical gate point metering data* aggregated across a period of more than one *gas day*, then:

(a) before aggregating the *physical gate point metering data* under clause 4.3.2(1)(a), the *network operator* must as a *reasonable and prudent person* apportion the *physical gate point metering data* across each *gas day* in the period for which the *physical gate point metering data* was provided; and

(b) provide the daily estimate determined under rule 4.3.2(4)(a) to *the data estimation entity* under rule 4.3.2(1) or 4.3.2(3)(a), as applicable.

(5) Clause 4.3.2(1) does not apply in respect of the *gate point metering data* for:

(a) a *farm tap sub-network*; or

(b) an *uncovered sub-network*.

(6) If after complying with its obligations under clause 4.3.2(1) or clause 4.3.2(2) the *network operator* becomes aware of a manifest error in the data it has provided, then the *network operator* may notify *REMCo* under section 5.23.

4.4. **Metering Data**

4.4.1. Verification of meter reading data [RMR][153]

A *network operator* must verify the *meter reading data* obtained from the *meter* or *meters* at a *delivery point* in accordance with the applicable *verification* guidelines set out in Appendix 2 , before providing *metering data* under this 4.4 section.

4.4.2. Energy Value [RMR][154]

A *network operator* must calculate the *energy value* in accordance with clauses 4.4.3 to 4.4.5, before providing *metering data* under this section 4.4.

4.4.3. Actual values [RMR][155]

No [BS] requirement. Refer to [RMR] for context only.

4.4.4. Estimated values [RMR][156]

No [BS] requirement. Refer to [RMR] for context only.

4.4.5. Substituted values [RMR][157]

No [BS] requirement. Refer to [RMR] for context only.

4.4.6. Time for provision of metering data to current users [RMR][158]

No [BS] requirement. Refer to [RMR] for context only.

4.4.7. Time for provision of metering data to the data estimation entity [158]

(1) Subject to clauses 4.4.7(2) and 4.4.8, a *network operator* must provide to the *data estimation entity* the *metering data* for:

(a) a *basic-metered delivery point* – by 5.00pm on the *business day* after the *network operator* receives the *meter reading data* (under clause 4.2.2 or as a result of a *special meter reading* under clause 4.2.5); and

(b) an *interval-metered delivery point* – within 3.5 hours after the end of the *gas day* to which the *meter reading* relates.

(2) If the *network operator* (acting as a *reasonable and prudent person*) is not satisfied with its *verification* of the data by the time specified in clause 4.4.7(1)(a), then:

(a) it must by the time specified in clause 4.4.7(1)(a) provide that the data for those *MIRNs* that passed validation; and

(b) it is permitted one further *business day* to either *verify* the data for the remaining *MIRNs* and provide *metering data* that contains an *actual value*, an *estimated value* or a *substituted value* (as applicable).

4.4.8. Changes to MIRN standing data and meter standing data relevant to calculations [RMR][159]

No [BS] requirement. Refer to [RMR] for context only.

4.4.9. Metering data for current users – basic and interval meters [RMR][160]

No [BS] requirement. Refer to [RMR] for context only.

4.4.10. Metering data for new connections – basic meters [RMR][161]

No [BS] requirement. Refer to [RMR] for context only.

4.4.11. Requirement for valid provision of metering data to the data estimation entity [RMR][162]

(1) For each occasion on which *metering data* for *basic-metered delivery points* is to be provided to the *data estimation entity*, the *metering data* must be provided, by means of *aseXML*, and include at least the following:

BSCMR: *Basic Meter Reading Data*

> *Delivery Point Identifier*
>
> *Date of the previous meter reading*
>
> *Date of the current meter reading*
>
> *Energy value*
>
> *Meter reading type*

Notification format defined in [ICD][BSCMR – Basic Meter Reading Data].

(2) For each occasion on which *metering data* for *interval-metered delivery points* is to be provided, by means of an *automated electronic file*, to the *data estimation entity*, the at least the following information must be included:

INTMR: *Interval Meter Reading Data*

Delivery Point Identifier

Date of the meter read

Hourly energy values

Total daily energy value

Meter reading type

Notification format defined in [ICD][INTMR – Interval Meter Reading Data].

4.4.12. Validation of the meter reading provided to the data estimation entity [RMR][163]

The *data estimation entity* will validate *meter reading data* provided to it under 4.4.11 as defined below:

(1) If the *delivery point* does not exist within *the data estimation entity* then the reading will be rejected.

(2) If the provider of the *meter reading data* is not the current *network operator* of the *sub-network* the *delivery point* is registered in *the data estimation entity* then the reading will be rejected.

(3) If the *energy value* of the *meter reading* is not a positive number the *meter reading* will be rejected.

(4) If the start date and end date of the *meter reading* are not valid dates then the *meter reading* will be rejected.

(5) If the start date is later than the end date then the *meter reading* will be rejected.

(6) If the consumption period spans any date when the *delivery point* is *deregistered*, then the reading will be rejected.

(7) The start date of the *metering period* must be the same as end date of an existing *metering period* – such that there is no gap between the end date of one reading and the start date of the next. In the case that the read is either the first read for a *delivery point* - or is a replacement for the first read, then the consumption start date must be the same as the effective start date of the *delivery point*.

(8) If a read is received that has the same start and end date as an existing read, then the new read will replace the existing read – leaving all other reads untouched subject to the *energy value type* precedence specified in 4.4.13.

(9) If a read is received that has the same start date but a different end date as an existing read, then the new read will replace the existing read, all the existing reads that fell chronologically after the new read will be discarded, and the new read will become the latest read.

(10) If the start date of the *meter reading* is greater than 425 days old, then the reading will be rejected.

(11) If the *network operator* does not have an *active GBO identification*, then the reading will be rejected.

4.4.13. Replacement of energy value types in the Data Estimation Entity [RMR][164]

If the *data estimation entity* receives *metering data* under clause 4.4.11 for a *delivery point* more than once for the same *metering period*, the *data estimation entity* must replace the *metering data* if it receives *metering data* for a previous *metering period* that contains a better quality *energy value* as determined in accordance with the following:

(a) An *estimated value* may be replaced by any other energy *value*; and

(b) An *actual value* may be replaced by another *actual* value or a *substituted value*; and

(c) A substituted value may be replaced by another substituted value.

4.4.14. Acknowledgement for metering data for delivery points [165 & 166]

After validation under 4.4.12 of *metering data* for *basic and interval meter delivery points* provided to the *data estimation entity* under 4.4.11, the *data estimation entity* must acknowledge, by means of an acknowledgement to the *network operator.*

The *acknowledgement* for *interval meter reading data* will indicate the *meter reading's* that are invalid and the reason the *meter reading* is invalid.

4.4.15. Metering data response for metering data for basic-metered delivery points [165 & 166]

After validation under 4.4.12 of *metering data* for *basic-meter delivery points* provided to the *data estimation entity* under 4.4.11, the *data estimation entity* must notify, by means of *aseXML*, to the *network operator* indicating the *meter reading's* that are invalid and the reason the *meter reading* is invalid.

Notification format defined in [ICD][BSCMR-RESP: Basic Meter Reading Data Response].

4.4.16. Provision of historical metering data to user on request [RMR][167]

No [BS] requirement. Refer to [RMR] for context only.

4.4.17. Archived historical metering data and historical meter reading data [RMR][168]

No [BS] requirement. Refer to [RMR] for context only.

4.5. **Heating value data**

4.5.1. Heating value data calculations [RMR][169]

No [BS] requirement. Refer to [RMR] for context only.

4.5.2. Heating value data to be retained [RMR][170]

No [BS] requirement. Refer to [RMR] for context only.

4.5.3. Publication of heating value data [RMR][171]

No [BS] requirement. Refer to [RMR] for context only.

5. Balancing, Allocation and Reconciliation

5.1. **Introduction**

5.1.1. Exemption for farm tap sub-networks and single pipeline sub-networks [RMR][171A]

No [BS] requirement. Refer to [RMR] for context only.

5.1.2. Some clauses are jurisdiction specific [RMR][172]

No [BS] requirement. Refer to [RMR] for context only.

5.1.3. Only one notional gate point per pipeline for each sub-network [RMR][174]

(1) If there is more than one physical interconnection between a given *sub-network* and a *pipeline*, then for the purposes of this section 5, the several physical points of interconnection are treated as being aggregated into a single (notional) *gate point* between the *pipeline* and the *sub-network*.

(2) If there is only one physical interconnection between a given *sub-network* and a *pipeline*, then for the purposes of this 5, that physical point of interconnection is treated as the *gate point*.

5.2. **User obligations**

5.2.1. User to procure injections which match <u>swing service repayment quantities and user's likely required withdrawals</u> [RMR][178]

No [BS] requirement. Refer to [RMR] for context only.

5.2.2. Deleted.

5.2.3. Deleted.

5.2.4. Rules may require negative injection [RMR][180]

No [BS] requirement. Refer to [RMR] for context only.

5.2.5. User to minimise its contribution to swing service [RMR][181]

No [BS] requirement. Refer to [RMR] for context only.

5.2.6. Users collectively to keep sub-network pressurised [RMR][182]

No [BS] requirement. Refer to [RMR] for context only.

5.3. **Shippers Register**

5.3.1. A shipper register is to be established and maintained by the data estimation entity. [RMR][173(1)]

The *data estimation entity* must establish a *shipper register,* the contents of which must kept confidential, which sets out for each *user* for each *sub-network*:

(a) a list of the *shippers* that have provided a valid *listing request* to the *data estimation entity*; and

(b) a list of the swing service providers that have provided a valid listing request to the data estimation entity.

5.3.2. A *shipper* or a *swing service provider* may request to be added or removed from the *shipper register* through the *GRMS operations staff*. [RMR][173(2)]

A *shipper* or a *swing service provider* may at any time directly or through an agent provide, by means of a *notice*:

(a) a request (**"listing request"**) to the *GRMS operations staff* to add it to the *shipper register* in respect of a *user* and a *sub-network* from a specified **"effective date"**; or

(b) a request (**"delisting request"**) to the *GRMS operations staff* to remove it's listing from the *shipper register* in respect of a *user* and a *sub-network* from a specified **"effective date"**.

Notification format defined in [ICD][SHPREGLST: Shipper Register Listing Request].

5.3.3. Contents of a listing request [RMR][173(3) & (4)]

(1) A *listing request* by a *shipper* under clause 5.3.2 is a statement by the *shipper* that the *shipper* agrees to be listed from time to time in the *user's allocation instruction* in respect of the *user's gas injections* into the *sub-network*, and is valid if:

(a) it includes the *shipper's GBO identification* and the *shipper* has an *active GBO identification*; and

(b) it includes a written confirmation from the *pipeline operator* that the *shipper* has a gas *transmission contract* in the *pipeline*.

(2) A *listing request* by a *swing service provider* under clause 5.3.2 is a statement by the *swing service provider* that the *swing service provider* agrees to be specified from time to time, under clause 5.16.1(2)(h)(i), in a *procurement request* provided by the *user* to the *GRMS operations staff* as a *swing service provider* to whom the *user* will repay part or all of the *swing service* in its *swing service repayment amount* where the *user* did not procure the *swing service* from that *swing service provider*, and is valid if:

(a) it includes the *swing service provider's GBO identification* and the *swing service provider* has an *active GBO identification*; and

(b) it includes a written confirmation from the *pipeline operator* that the *swing service provider* either:

(i) has a gas *transmission contract* in the *pipeline*; or

(ii) has an agreement with the *pipeline operator* for the provision of either or both of *park swing service* and *loan swing service* in the *pipeline* at the *gate point*.

5.3.4. The shipper's register to be amended on receipt of a listing request [RMR][173(5)]

Upon receipt of a valid *listing request* or a *delisting request*, the *GRMS operations staff* must update the *shipper register* according to the following:

(1) where the request is received from a *shipper*:

(a) where the *effective date* is within 2 *business days* of the date of the *listing request* or *delisting request* – as soon as reasonably practicable, and in any event before the end of the *business day* on which the *GRMS operations staff* receives the *listing request* or *delisting request*, to apply at the latest in respect of the *gas day* starting 2 *business days* later; and

(b) where the *effective date* is 2 *business days* from the date of the *listing request* or *delisting request* or later – to apply in respect of the first *gas day* after the *effective date*,

and

(2) where the request is received from a *swing service provider*:

(a) where the *effective date* is within 4 *business days* of the date of the *listing request* or *delisting request* – as soon as reasonably practicable, and in any event before the end of the *business day* on which the *GRMS operations staff* receives the *listing request* or *delisting request*, to apply at the latest in respect of the *gas day* starting 4 *business days* later; and

(b) where the *effective date* is 4 *business days* from the date of the *listing request* or *delisting request* or later – to apply in respect of the first *gas day* after the *effective date*.

5.3.5. The data estimation entity to produce a shipper's report [RMR][173(6)]

If requested, by means of a *notice*, by a *pipeline operator*, the *GRMS operations staff* must as soon as reasonably practicable advise, by means of a *bulk electronic file*, the *pipeline operator* of all *shippers* and *swing service providers* listed in the *shipper register* in respect of a *gate point* which interconnects the *pipeline operator's pipeline* and a *sub-network*.

Notification format defined in [ICD][SHPRPTREQ: Shipper Registration Report Request].

Notification format defined in [ICD][SHPREGRPT: Shipper Registration Report].

5.3.6. A pipeline operator can request that a shipper or swing service provider be removed from the shipper register [RMR][173(7), (8) & (9)]

(1) If a *shipper* does not have a gas *transmission contract* in a *pipeline*, the *pipeline operator* may give, by means of *notice* (**"removal request"**), to the *GRMS operations staff* requesting the *GRMS operations staff* to remove the *shipper* from the *shipper register* in respect of a *gate point* on the *pipeline*.

(2) If a *swing service provider* does not have either:

(a) a gas *transmission contract* in the *pipeline*; or

(b) an agreement with the *pipeline operator* for the provision of either or both of *park swing service* and *loan swing service* in the *pipeline* at the *gate point*,

then the *pipeline operator* may give, by means of *notice* (**"removal request"**), to the *GRMS operations staff* requesting the *GRMS operations staff* to remove the *swing service provider* from the *shipper register* in respect of a *gate point* on the *pipeline*.

(3) By providing a *removal request*, the *pipeline operator* represents and warrants to *REMCo* that the *shipper* or *swing service provider* named in the *removal request* does not have a gas *transmission contract* in the *pipeline*.

Notification format defined in [ICD][SHPREGLST: Shipper Register Listing Request].

5.3.7. The shipper's register to be amended on receipt of a removal request [RMR][173(10)]

On receipt of a *removal request*, the *GRMS operations staff* must:

(a) as soon as reasonably practicable and in any event within 12 hours, advise, by means of a *notice*, the *shipper* or *swing service provider* and each *user* in respect of which the *shipper* or *swing service provider* is listed in the *shipper register* that, on the *pipeline operator's* request, the *shipper* or *swing service provider* will be removed from the *shipper register* in respect of the *gate point* which interconnects the *pipeline* and the *sub-network*; and

> *Notification format defined in [ICD][SHPREGRMV: Shipper Register Removal].*

(b) remove the *shipper* or *swing service provider* from the *shipper register* in respect of the *gate point* which interconnects the *pipeline* and the *sub-network* as soon as reasonably practicable and in any event before the end of the *business day* on which *REMCo* receives the notification from the *pipeline operator*, to apply at the latest in respect of the *gas day* starting 2 *business days* later.

5.3.8. The provider of the removal request indemnifies REMCo [RMR][173(11)]

(1) A *pipeline operator* that provides a *removal request* to *REMCo* is liable to the *REMCo* for, and must indemnify *REMCo* against, any loss or damage caused by or arising directly or indirectly out of or in connection with the *removal request*, including:

(a) the *removal request* not being validly given;

(b) the *GRMS operations staff* acting in reliance on the *pipeline operator's* representation and warranty under clause 5.3.6(3);

(c) the *GRMS operations staff* acting in reliance on the *removal request*; or

(d) the *GRMS operations staff* removing a *shipper* or *swing service provider* from the *shipper register* in accordance with the *removal request*,

including:

(e) any liability of the *GRMS operations staff* to any other person, or any claim, demand, action or proceeding brought against the *GRMS operations staff*, and any costs or expenses, including legal costs (on a full indemnity basis), in connection with the claim, demand, action or proceeding; and

(f) any consequential loss or damage however caused, including any:

(g) loss of (or loss of anticipated) use, production, revenue, income, profits, business and savings; or

(h) loss or damage due to business interruption,

whether or not the consequential loss or damage was foreseeable.

(2) To avoid doubt, the exclusion of indirect, consequential, special or economic loss, however arising, under [RMR][Rule 376] does not apply in relation to the indemnity in clause 5.3.8.

5.4. **Allocation Instruction**

5.4.1. User's gas injections [RMR][187]

User's gas injections for a *sub-network* for a *gas day* means as appropriate, either:

(i) before the end of the *gas day*, the *user's total nomination amount* under rule 5.6.11 minus the sum of the *user's swing service repayment*

> > amount for *repayment* on the *gas day* calculated under rule 5.17.26; and

> (ii) after the end of the *gas day,* the *user's estimated total withdrawals* calculated under clause 5.10.15 minus the *user's swing service repayment amount* for repayment on the *gas day* calculated under clause 5.17.26; or

5.4.2. User's allocation instruction [RMR][188(3)]

An *allocation instruction* must specify for each *gas day* to which it applies how the *user's gas injections* into the *sub-network,* other than the *user's swing service repayment amount*, are to be allocated between the *shippers injecting* gas into the *sub-network* on the *user's* behalf.

5.4.3. The user warrants that their allocation instruction is valid. [RMR][193]

> (1) In providing an *allocation instruction*, a *user* warrants to REMCo that:

> (a) each of the *shippers* set out in the *allocation instruction* agrees to, and has sufficient contractual entitlements to, *inject* gas on the *user's* behalf in accordance with the *allocation instruction* on any *gas day* to which the *allocation instruction* applies; and

> (b) the *user* is party to a *haulage contract* for the transportation of gas through the *sub-network* in respect of which the *allocation instruction* applies .

> (2) A *user* makes the warranties in clause 5.4.3(1) anew on the *gas day* before any *gas day* on which the *allocation instruction* will apply.

5.4.4. Timings for the provision of an allocation instruction to the data estimation entity by a user. [RMR][188(1), 189(1) & (2)]

> (1) At least 2 *business days* before first withdrawing gas from a *sub-network*, a *user* must give the *data estimation entity* a valid *allocation instruction* .

> (2) A *user* may at any time up to 3.5 hours after the start of a *gas day* give the *data estimation entity* a "**revised allocation instruction**" for the *gas day* in substitution for an "**earlier allocation instruction**".

> (3) The first business process for the *gas day* starts 16 hours before the gas day. If by that time the GRMS does not receive the Users Allocation instruction for the gas day, the GRMS will substitute them as per clause 5.4.9.

5.4.5. A user is to provide the data estimation entity with their allocation instruction for a gas day and a sub-network. [RMR][188(1) & 189(1)]

> The *user* must provide, by means of an *automated electronic file*, to the *data estimation entity* in the time frames specified in 5.4.4 its *allocation instruction* for the *gas day* for the *sub-network*.

> **UAI:** *User's allocation instruction*

> *User GBO identifier*

> *Sub-network identifier*

> *Gas day*

> *Shipper GBO identifier*

> *Allocation*

Notification format defined in [ICD][UAI – User's allocation instruction].

5.4.6. Validation of the user's allocation instruction [RMR][191]

A *user's allocation instruction* will be valid if:

(a) the *allocation instruction* has been received in the time frame specified in 5.4.4.

(b) each *shipper* listed on the *allocation instruction* is listed in the *shipper register* for the *user* for the *sub-network* for the *gas day*.

(c) the allocations in the *allocation instruction* are capable of being applied to allocate all the *user's gas injections* (whatever they may be on the *gas day*) to the *shippers* specified in the *allocation instruction*.

(d) where the *allocation instruction* allocates gas *injections* by percentages only the sum of the percentage allocations should equal 100%.

(e) where the *allocation instruction* allocates gas *injections* by a combination of quantity and percentages then the sum of the percentage allocations should equal 100%. This is required so that the *data estimation entity* can always allocate a *user's* nominated amount of gas injections for the *gas day* to *shippers*. The percentage allocations are used when the *user's* nominated gas injection for the *gas day* is greater than the sum of the quantities specified in the *user's allocation instruction*. The percentage allocations are used by the *data estimation entity* to allocate the remainder of the nominated amount to the *shipper's* specified in the *allocation instruction*.

5.4.7. Validation of user's allocation instructions as a result to a change in the shipper's register [New Requirement]

When there is a change to the *shipper's register,* as notified to the *data estimation entity* under clause 5.3.2 and 5.3.6, the *data estimation entity* must validate, according to 5.4.6, that the *user's allocation instruction* remain valid from the day the change in the *shipper register* becomes effective.

5.4.8. The user is to be advised if its user's allocation instruction is invalid by the data estimation entity. [RMR][192(1)]

If the *data estimation entity* determines that a *user's allocation instruction* is not valid, the *data estimation entity* must advise, by means of an *automated electronic file*, the *user* as soon as possible that its *allocation instruction* is not valid and the reason why.

UAI-INV: User's allocation instruction invalid

User GBO identifier

Sub-network identifier

Gas day

Notification format defined in [ICD][UAI-INV – User's allocation instruction invalid].

5.4.9. The data estimation entity is to determine the user's *allocation instruction* where the user has not provided a valid allocation instruction. [RMR][192(2)]

If the user has not provided a valid allocation instruction to the data estimation entity before the start of the gas day, then the data estimation entity is to use the appropriate alternative method as follows for allocating the user's gas injections across shippers for the gas day:

(a) use the *user's* most recent *allocation instruction* for the sub-*network* that is valid for the *gas day* determined using the *like day substitution methodology*; and

(b) if there is no such *allocation instruction*, use the *user's* most recent *allocation instruction* for the *sub-network* that is valid for the *gas day* from any previous *gas day*; and

(c) if there is no such *allocation instruction*, apportion the *user's* gas injections for the *gas day* across all of the *shippers* listed in the *shipper register* for the *user* for the *sub-network* in equal amounts; and

(d) if there are no *shippers* listed in the *shipper register* for the *user* for the *sub-network*, then the *data estimation entity* must determine the most recent *gas day* for which there was at least one *shipper* listed in the *shipper register* for the *user* for the *sub-network*, and allocate the *user's gas injections* for the *gas day* across all of the *shippers* listed in the *shipper register* for the *user* for the *sub-network* on that *gas day* in equal amounts, and as soon as reasonably practicable:

> (i) notify, by means of an *automated electronic file*, each *shipper* that the *data estimation entity* was required to allocate *gas* to that *shipper*, of the amount of gas allocated to the *shipper* and of the name of the *user*.

> *Notification format defined in [ICD][UA-SHP: User allocation for a shipper].*

> (ii) notify, by means of a *notice*, the *RMA* that the *user's gas injections* have been allocated to *shipper's* based on the method outlined in clause 5.4.9(d).

> *Notification format defined in [ICD][NOT-UAI-USR: User allocation instruction – Used Shipper Register].*

5.4.10. The RMA to notify the ROLR administrator where the allocation method of last resort has been used to determine the user's allocation instruction [RMR][192(3)]

If the *RMA* has been notified by the *data estimation entity* that a *user's gas injections* for a *gas day* for a *sub-network* has been allocated using the method set out in clause 5.4.9(d), then the *RMA* must:

(a) as soon as reasonably practicable notify, by means of a *notice*, the *ROLR administrator* for the *jurisdiction* of the *sub-network* that the *RMA* was required under clause 5.4.9(d) to allocate the *user's gas injections* for the *sub-network* to *shippers* which are not listed in the *shipper register* for the *user* for the *sub-network*; and

(b) consult with the relevant parties to determine a process to follow in respect of the *user's customers* other than its *small use customers*.

5.4.11. Where the data estimation entity determines the user's allocation instruction the allocation instruction must be provided to the user. [192(2)]

Where the *data estimation entity* has determined the *user's allocation instruction* for a *sub-network* for a *gas day* under clause 5.4.9 the *data estimation entity* must provide, by means of an *automated electronic file*, the *allocation instruction* it has determined to the *user*.

> *Notification format defined in [ICD][UAI-SUBS: Notification about substituted user allocation instruction].*

5.4.12. A user warrants that for a revised user's allocation instruction that the proportions of the revised allocations for each pipeline do not change significantly from the original allocation instruction [RMR][189(3), (4), (5) & (6)]

(1) A user must not give the *data estimation entity* a *revised allocation instruction* for a *gas day* after the start of the *gas day*:

(a) which, subject to 5.4.12(2) purports to allocate a *user's gas injections* into the *sub-network* across *pipelines* in different proportions to the *allocation instruction* that applied to the *gas day* at the start of the *gas day* (**"earlier allocation instruction"**) in a way which for either *pipeline* would result in more than a 10% difference between the amount of gas allocated to a *pipeline* at the end of the *gas day* compared with what would have been allocated under the *earlier allocation instruction*; or

(2) In Western Australia, where a *user* has provided a revised *user's pipeline nomination amount* for the *gas day* to the *data estimation entity* under clause 5.6.10, a *revised allocation instruction* given by the *user* to the *data estimation entity* which allocates the *user's gas injections* into the *sub-network* across *pipelines* in different proportions to the *earlier allocation instruction* is not subject to the limitation in clause 5.4.12(1)(a) if the *revised allocation instruction* operates to allocate an amount of the *user's gas injections* into the *sub-network* to a *pipeline* that is closer to the revised *user's pipeline nomination amount*.

(3) A *revised allocation instruction* provided by a *user* to the *data estimation entity* is not subject to the limitation in clause 5.4.12(1)(a) if the *revised allocation instruction* is provided by the *user* in extraordinary circumstances in an attempt to allocate the *user's gas injections* into the *sub-network* in a manner which is for the overall benefit of the *sub-network* as a whole.

5.5. **Profile Determination**

5.5.1. The *RMA* determines profiles [RMR][200(1) & 209(1)]

The *RMA* may determine from time to time the *profiles* to be used in sections 5.6, **Error! Reference source not found.**, 5.8, and **Error! Reference source not found.**.

5.5.2. The *RMA* must make available their guidelines for determining profiles [RMR][200(2) & 209(2)]

The *RMA* must make available their guidelines for determining profiles which set out:

(a) The principles on which the *profiles* determined in 5.5.1 are based; and

(b) The principles which the *RMA* applies in the selection of a *profile* for a *gas day*; and

(c) The *RMA's* policy on the retention and management of the *profiles* referred to in 5.5.1 in a *profile* library.

5.5.3. The RMA notifies the data estimation entity about the profile [RMR][200(1) & 209(1)]

The *RMA* must notify, by means of *notice*, the *data estimation entity* of the determination made under clause 5.5.1 and the *profile to be used*.

Notification format defined in [ICD][PROF: Profile].

5.5.4. The data estimation entity to store the profiles notified to it by the RMA

The *data estimation entity* must store the *profiles* that have been notified to it under clause 5.5.3 so that the profiles can be used in the calculation of the profiled nominations and forecasts in sections 5.6, **Error! Reference source not found.**, 5.8 and **Error! Reference source not found.**.

5.6. **Before the start of the gas day**

5.6.1. Pressure control pipeline to provide instantaneous flow signals [RMR][217A]

No [BS] requirement. Refer to [RMR] for context only.

5.6.2. Pipeline operator to notify the RMA of the pipeline control system [RMR][175]

For each *pipeline* in each *sub-network*, the *pipeline operators* must notify the *RMA* and each *network operator* of the control system it proposes to operate for its *pipeline*:

(a) no later than 20 *business days* before the *go-live date*; and

(b) no later than 20 *business days* before the *pipeline operator* changes the type of control system it is operating at any time after the *go-live date*.

5.6.3. Type of pipeline control system [RMR][176] (WA only)

(1) If the *RMA* is notified, by means of a *notice,* under clause 5.6.2 that a *sub-network* will be operating with one pressure control *pipeline* and one flow profile control *pipeline*, then:

(a) within 2 *business days* of the *RMA* receiving the notice under clause 5.6.2, the *RMA* must notify the *data estimation entity* about the details of the change and the effective date of the change.

(b) within 15 *business days* of the *RMA* receiving the notice under clause 5.6.2, and then from time to time at the *RMA's* discretion the *RMA* must provide to the *pipeline operator* of the flow profile control *pipeline* and the *data estimation entity*:

(i) the set of *profiles* for the operation of the flow profile control *pipeline* for the *sub-network*; and

(ii) the set of principles, which must be applied by the *pipeline operator* of the flow profile control *pipeline* in the selection of a *profile* for the operation of the flow profile control *pipeline* for the *sub-network* for each *gas day*;

and on each occasion that *RMA* determines new *profiles* or principles, *RMA* must as soon as practicable provide the new *profiles* or principles to the *data estimation entity* and the *pipeline operator* of the flow profile control *pipeline*; and

(c) each *user* in the *sub-network* must procure its *related shippers* in the flow profile control *pipeline* to procure the *pipeline operator* for the flow profile control *pipeline* to

(i) select a *profile* for the operation of the flow profile control *pipeline* for each *gas day* from the set of *profiles* referred to in clause 5.6.3(1)(b)(i) in accordance with the principles referred to in clause 5.6.3(1)(b)(ii);

(ii) inject gas into the *sub-network* on a *gas day* in accordance with the *profile* notified by the *data estimation entity* under clause 5.6.3(1)(a) from time to time.

(iii) advise, by means of an automated electronic file, the *data estimation entity*, at least 16 hours before the start of each *gas day*, of the *profile* selected by the *pipeline operator* for the *gas day*.

Notification format defined in [ICD][PIPPRF: Pipeline profile]

(2) If the *data estimation entity* is notified that a *sub-network* will be operating with one pressure control *pipeline* and one flow ratio control *pipeline*, then:

(a) for each *gas day D*, the *data estimation entity* must calculate the ratio for the flow ratio control *pipeline* for the *sub-network* by reference to the *user's pipeline nomination amounts* notified to the *data estimation entity* under clause 5.6.8 for the *sub-network*, and at least 15 hours before the start of *gas day D*, notify, by means of an *automated electronic file*, the ratio to the *pipeline operator* for the flow ratio control *pipeline*; and

Notification format defined in [ICD][PIPRATIO: Pipeline ratio]

(b) each *user* in the *sub-network* must procure its *related shippers* or *swing service providers* (as applicable) in the flow ratio control *pipeline* to procure the *pipeline operator* for the flow ratio control *pipeline* to inject gas into the *sub-network* in accordance with the ratio notified by the *data estimation entity* under clause 5.6.3(2)(a) or revised under clause 5.6.3(3) from time to time.

(3) If the *data estimation entity* is required to calculate the ratio for a flow ratio control *pipeline* for a *sub-network* for a *gas day*, it must calculate the ratio as follows:

$$R = \frac{\sum UPNA_F}{\sum UPNA_p}$$

where:

R = the ratio for a flow ratio control *pipeline* for the *sub-network* for the *gas day*;

$UPNA_F$ = the user's pipeline nomination amount for the flow ratio control pipeline for each user for the sub-network; and

$UPNA_p$ = the *user's pipeline nomination amount* for the *pipeline* not operating under flow ratio control for each *user* for the *sub-network*.

(4) If the *data estimation entity* has notified a ratio for *gas day D* to the *pipeline operator* for the flow ratio control *pipeline* for a *sub-network* under clause 5.6.2, and the *data estimation entity* is notified of a revised *user's pipeline nomination amount* for the *sub-network* for *gas day D* under clause 5.6.8, the *data estimation entity* must:

(a) recalculate the ratio for the flow ratio control *pipeline* for the *sub-network* for *gas day D* taking into account the revised *user's pipeline nomination amount* (**"recalculated ratio"**);

(b) correct the *recalculated ratio* (**"corrected recalculated ratio"**) with the objective that at the end of the *gas day* the ratio of gas delivered by the flow ratio control *pipeline*, taken across the whole of the *gas day*, is appropriate, provided that the correction is not more than **"A"**%, where **"A"** is a variable (the value to be used for the variable in clause 5.6.3 is: A = 20), of the *recalculated ratio*; and

(c) notify, by means of an automated electronic file, the corrected recalculated ratio to the pipeline operator for the flow ratio control pipeline.

Notification format defined in [ICD][PIPRATIO: Pipeline Ratio]

(5) If the *pipeline operator* of the flow ratio control *pipeline* forms the opinion that it cannot adjust the operation of the *pipeline* to accommodate the *corrected recalculated ratio* notified to it under clause 5.6.3(4)(c), then:

(a) it must immediately notify, by means of a *notice*, the *RMA* of the opinion; and

(b) the *RMA* may consult with the *pipeline operator* (both acting as reasonable and prudent persons) and may adjust the *corrected recalculated ratio*; and if the *RMA* does adjust the *corrected recalculated ratio*, it must notify, by means of a *notice*, the *pipeline operator*, *shippers* on the *pipeline* and *users* in the *sub-network* of the adjusted *corrected recalculated ratio*.

5.6.4. *REMCo* may consult with the *pipeline operator* (both acting as *reasonable and prudent persons*) and may adjust the *corrected recalculated ratio*, and if *REMCo* does adjust the *corrected recalculated ratio*, it must make the adjusted *corrected recalculated ratio* available to the *pipeline operator*, *shippers* and *swing service providers* on the *pipeline* and *users* in the *sub-network*. Shipper's nominations apply only to extent accepted [RMR][194]

(1) A reference in this document to the amount of a *shipper's* or *swing service provider's* (as applicable) *nomination* or *renomination* means only the *accepted part* of the *nomination* or *renomination*.

(2) In clause 5.6.4(1), **"accepted part"** means that part of the *nomination* or *renomination* that, after applying the relevant *transmission contract* processes, is binding on the *pipeline operator* for the purpose of the *transmission contract* in the sense that the *pipeline operator* is obliged under the *transmission contract* to inject gas in accordance with the *nomination* or *renomination*.

5.6.5. User to procure shipper's nominations [RMR][186]

(1) For each *sub-network* for each *gas day*, each *user* must procure *nominations* from one or more *related shippers* or *awing service providers* (as applicable) within the time frames required by the *related shipper's* or *swing service provider's transmission contract* which are sufficient to satisfy the *user's* obligations under 5.2.

(2) Nothing in clause 5.6.5(1) prevents a *shipper's* or *swing service provider's nomination* under 5.6.2 from being made in aggregate to the *pipeline operator*, to address the requirements of more than one *user*.

5.6.6. User to procure standing nomination [RMR][195]

A *user* must procure from each of its *related shippers* for each *sub-network* for each *pipeline*, a **"standing nomination"** to the *pipeline operator* which, for the purposes of this document, is the *user's related shipper's* default *nomination* in circumstances where the *user's related shipper* fails to *nominate* in accordance with its *transmission contract*.

5.6.7. User's amount of a shipper's nomination [RMR][196]

(1) For each *sub-network* for each *gas day* for each *shipper's nomination* by a *user*'s *related shipper*, the *user* must agree with the *shipper* the **"user's amount"** of the *shipper's nomination* under 5.6.2.

(2) If a *shipper* is the *related shipper* of only one *user*, then the *user's amount* equals the *shipper*'s *nomination* under 5.6.2.

5.6.8. User's pipeline nomination amount [RMR][197(1)] (WA only)

For each *pipeline* for each *sub-network* for each *gas day*, a **"user's pipeline nomination amount"** ("**UPNA**") is the sum of:

(a) the user's amount of it's *related shipper's nominations* for the *sub-network* for the *gas day* (summed across all related shippers for the pipeline) calculated under clause 5.6.7.

(b) the *user's swing service repayment quantities* for the *sub-network* for the *pipeline* for the *gas day*.

5.6.9. User's to notify the data estimation entity of their user's pipeline nomination amount [RMR][197(2)]

For each *gas day* for each *pipeline* for each *sub-network*, at least 18 hours before the start of the *gas day*, a *user* must notify the *data estimation entity,* by means of *automated electronic file,* of their *pipeline nomination amount* for the *pipeline*. This does not preclude the *user* from changing their *nomination* under 5.6.10.

UPNA: *User's pipeline nomination*

User GBO identifier

Sub-network identifier

Gas day

Pipeline identifier

Pipeline nomination amount

Notification format defined in [ICD][UPNA – User's pipeline nomination].

5.6.10. Renominations [RMR][184]

(1) If before or during a *gas day*

(a) a *user's related shipper* changes their *shipper nomination* in 5.6.2; or

(b) a *user* becomes aware that its *related shipper's nomination* is to be adjusted under its *transmission contract*; or

(c) a *user* becomes aware that it's *related shipper's nomination* for the *gas day* is to be adjusted under its *transmission contract,* or that the *pipeline operator* does not plan to inject gas in accordance with the *shipper's or swing service provider's* (as applicable) *nomination* for the *gas day*,

in a manner which will cause a change to the *user's pipeline nomination amount* then the *user*:

(i) must *immediately notify*, by means of an *automated electronic file*, the *data estimation entity* of their revised *user's pipeline nomination amount* for the *gas day*, for the *pipeline* and *sub-network*.

Notification format defined in [ICD][UPNA: User's pipeline nomination].

(ii) may notify, by means of an *automated electronic file*, the *data estimation entity* of their revised *allocation instruction* for the *gas day* and *sub-network*.

Notification format defined in [ICD][UAI: User's allocation instruction].

5.6.11. User's total nomination amount [RMR][198]

(1) For each *sub-network* for each *gas day*, a **"user's total nomination amount"** (**"UTN"**) is the sum (across all *pipelines*) of the *user's pipeline nomination amounts* for the *sub-network* for the *gas day*.

(2) The *data estimation entity* must calculate the *user's total nomination amount* as specified in 5.6.11(1) for each *user* in the *sub-network* for the *gas day* as follows:

$$UTN = \sum UPNA$$

where:

UTN   = the *user's total nomination amount* for a *sub-network* for a *gas day*.

UPNA = the *user's pipeline nomination amount* for a *pipeline* for a *sub-network* for a *gas day*.

5.6.12. The data estimation entity to calculate profiled daily nominations. [RMR][199]

(1) For each *sub-network* for each *gas day* D the *data estimation entity* must calculate the **"profiled pipeline nominations"** for each *pipeline* for the *sub-network* as follows:

$$PPN = DP \times \sum UPNA$$

where:

PPN   = the *profiled pipeline nomination* for a *pipeline* for *gas day* D

DP   = a *profile* for *gas day* D in accordance with 5.5 or notified under 5.6.2 for a flow profile control *pipeline*.

UPNA = *user's pipeline nomination amounts* for the *pipeline* for the *sub-network* for *gas day* D notified under 5.6.9 and 5.6.10.

(2) For each *sub-network* for each *gas day* D the *data estimation entity* must calculate the **"profiled sub-network nominations"** as follows:

$$PSN = DP \times \sum UTN$$

where:

PSN   = the *profiled sub-network nomination* for *gas day* D for a *sub-network*.

DP   = a *profile* for *gas day* D in accordance with 5.5

UTN = *user's total nomination amounts* for the *sub-network* for *gas day* D calculated under 5.6.11

5.6.13. The data estimation entity to provide to participants the profiled daily nominations [RMR][199]

For each *sub-network* for each *gas day* D, at least 2 hours before the start of *gas day* D, the *data estimation entity* must provide to *users* in the *sub-network* and their related *shippers, the network operator* for the *sub-network* and *pipeline operators*, by means of an *automated electronic file*, the following:

(a) the *profiled sub-network nominations* for the *sub-network*; and

   Notification format defined in [ICD][NPN: Sub-network profiled nomination].

(b) the *profiled pipeline nominations* for each *pipeline* for the *sub-network*

   Notification format defined in [ICD][PPN: Pipeline profiled nomination].

5.7. **There is no clause 5.7**

5.8. **During the gas day**

5.8.1. The data estimation entity is to recalculate the profiled sub-network nominations when the user's pipeline nomination amount changes. [RMR][212]

(1) For each *sub-network* for each *gas day*, if, after providing the *profiled sub-network nominations* for the *sub-network* for the *gas day* under clause 5.6.13, the *data estimation entity* receives a revised *user's pipeline nomination amount* under clause 5.6.10 for a *pipeline* for the *sub-network* for the *gas day*, the *data estimation entity* must adjust the *profiled sub-network nominations* in accordance with the revised *user's pipeline nomination amount*.

(2) If under the clause 5.8.1 *the data estimation entity* adjusts the *profiled sub-network nominations*, the *data estimation entity* must provide to *users* in the *sub-network,* their *related shippers* or *swing service providers* (as applicable), the *network operator* for the *sub-network* and *pipeline operators*, by means of an *automated electronic file*, the adjusted *profiled sub-network nominations* for the *sub-network* calculated under clause 5.8.1.

Notification format defined in [ICD][NPN: Sub-network profiled nomination].

5.8.2. Pipeline operators to provide hourly data to data estimation entity. [RMR][210]

For each *pipeline* for each *sub-network* for each hour in a *gas day*, the *pipeline operator* must give, by means of an *automated electronic file*, to the *data estimation entity* within 30 minutes after the end of the hour the as-retrieved energy inflow data for the *gate point* for the hour.

Notification format defined in [ICD][GPENG: Gate point energy inflow].

5.8.3. The data estimation entity has no obligation to provide *gate point* data when the required *gate point* data has not been provided by the *pipeline operators* [RMR][211(2)]

If, for a *sub-network* for an hour, the *data estimation entity* does not receive the data referred to in 5.8.2 from a *pipeline operator* in sufficient time for the *data estimation entity* to make available the data as required by 5.8.3, then for that hour, the *data estimation entity* is not required to make available the data referred to in 5.8.3.

5.8.4. The data estimation entity to provide hourly gate point and profile data. [RMR][211(1)]

For each *sub-network* for each hour, the *data estimation entity* must, by means of an *automated electronic file*, within 60 minutes after the end of the hour make available to *users* in the *sub-network,* the following:

(a) the as-retrieved energy inflow data for each *gate point* on the *sub-network* for the hour;

Notification format defined in [ICD][GPENG: Gate point energy inflow].

(b) the as-retrieved energy inflow data aggregated across all *gate points* on the *sub-network* for the hour; and

(c) The *profiled sub-network nominations,* which the *data estimation entity* provided before the start of the gas day under clause 5.6.13, or as revised from time to time under 5.8.1.

Notification format defined in [ICD][GPENGPROF: Gate point energy and profile].

CGI

5.10. **Allocation**

5.10.1. The period for calculations [RMR][218]

(1) Except where a clause states to the contrary, for each *gas day D* the *data estimation entity* must perform each calculation it is required to perform under this section 5.10 and section 5.11 for each *historical gas day i* in the *historical period*.

(2) Except where a clause states to the contrary, the *data estimation entity* must use the value it has most recently received and recorded, or generated and recorded:

(a) for each input into each calculation the *data estimation entity* is required to perform under this section 5.10 and section 5.11; and

(b) for each notification that the *data estimation entity* is required to provide under this section 5.10 and section 5.11.

(3) For the purposes of clause 5.10.1(1):

"historical period" for *gas day D* means the period of 425 *gas days* between 426 *gas days* before *gas day D* and one *gas day* before *gas day D*; and

"historical gas day i" for *gas day D* means a *gas day* in the *historical period* for *gas day D*.

(4) The following transitional provisions apply in respect of calculations affecting a *gas day* (**"prior day"**) before the *go-live* date:

(a) subject to clauses 5.10.1(4)(c) and 5.10.1(4)(d), to the extent that the *data estimation entity* has in its system data for the *prior day* (**"prior day data"**) it must use the *prior day data* in any calculation under this section 5 that would normally (that is, if the *prior day* occurred after the *go-live date*) use the data; and

(b) to the extent that a calculation under this section 5 determines a new value for any *prior day data* which would normally (that is, if the *prior day* occurred after the *go-live date*) be substituted for the old value, then the new value is to be substituted for the old value in the normal way but the substituted data remains *prior day data*; and

(c) no reconciliation amount calculated under 5.11 is to include any amount correcting for anything which occurred on a *prior day*; and

(d) no amount of *swing service* calculated under section 5.15 is to include any amount reflecting anything which occurred on a *prior day*.

5.10.2. Reconciliation does not affect charges or payments [RMR][219]

The allocation processes in this section 5.10 and the reconciliation process in the next section 5.11 do not affect any payment made or payable under swing gas section 5.17. In other words a calculation under swing gas section 5.17 may not be reopened to correct the calculation using recalculated or reconciled amounts.

5.10.3. The Network Operator to notify the data estimation entity about user's UAFG [RMR][229]

Within 3.5 hours after the end of the *gas day*, *the network operator* must advise, by means of an *automated electronic file*, the *data estimation entity* for each *sub-network* for *the gas day D* its estimate of *user*'s unaccounted for gas ("UUAFG") to be supplied by each supplier of *UAFG*. The estimate of *UAFG* must take into account historical levels of *UAFG*

and be a number that results in the *net system load*, calculated under clause 5.10.9(1), being zero or a positive number.

UUAFG: *User's unaccounted for gas*

Gas day

Sub-network

User GBO Identifier

Users unaccounted for gas

> *Notification format defined in [ICD][UUAFG – User's unaccounted for gas].*

5.10.4. The estimated unaccounted for gas [RMR][229]

The sum of the *user*'s unaccounted for gas (UUAFG) supplied to the *data estimation entity* under clause 5.10.3 is the estimated *UAFG* for the *sub-network* for the *gas day* (**"EUAFG"**).

5.10.5. Pipeline injections [RMR][220(1)]

For each *pipeline* for each *sub-network* the **"pipeline injections"** for *gas day D* is the gate point energy quantity for *the gate point* between the *pipeline* and *sub-network* provided to the *data estimation entity* by *the network operator* under 4.3.2.

5.10.6. Pipeline corrected injections [RMR][220(2)]

For each pipeline for each sub-network the data estimation entity must calculate the **"pipeline corrected injections"** for each gas day as follows:

$$PCI = PI + GAA$$

where:

PCI   = the *pipeline corrected injections* for the *sub-network* for the *pipeline* for the *gas day*;

PI   = the *pipeline injections* for each *pipeline* for the *sub-network* for the *gas day D* as calculated under clause 5.10.5.

GAA = the gate point adjustment amount for the pipeline and the sub-network for the gas day D.

5.10.7. Total corrected injections [RMR][221]

For each *sub-network*, the *data estimation entity* must calculate the **"total corrected injections"** for *gas day D* as follows:

$$TCI = \sum PCI - \sum SSRA - \sum URAA$$

where:

TCI   = the *total corrected injections* for the *sub-network* for the *gas day D*.

PCI   = the *pipeline corrected injections* for each *pipeline* for the *sub-network* for the *gas day D* as calculated under clause 5.10.6.

SSRA = the *swing service repayment amount* for each *user* for the *sub-network* for repayment on *gas day* D calculated under clause 5.17.28.

URAA = the *user's reconciliation adjustment amount* for each *user* for the *sub-network* for repayment on *gas day* D calculated under clause 5.11.18.

5.10.8. User's interval-metered withdrawals [RMR][222]

For each *user* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the *user's* **"interval-metered withdrawals" ("UIW")** for *gas day D* as follows:

$$UIW = \sum IW$$

where:

UIW = the *user's interval-metered withdrawals* for the *sub-network* for the *gas day* D.

IW = the *interval-metered withdrawals* for each of the *user's interval-metered delivery points* in the *sub-network* for the *gas day* D.

5.10.9. Net system load [RMR][223]

(1) For each *sub-network,* the *data estimation entity* must calculate the *net system load* for each *gas day* in the period of calculation as follows:

$$NSL = TCI - \sum UIW - EUAFG$$

where:

NSL = the *net system load* for the *sub-network* for the *gas day* D.

TCI = the *total corrected injections* for the *sub-network* for the *gas day D* as calculated under clause 5.10.6.

UIW = the *interval-metered withdrawals* for the *gas day D* for each *user* in the *sub-network* as calculated at clause 5.10.8.

EUAFG = the estimate of *unaccounted for gas* for the *sub-network* for the *gas day D* as calculated under clause 5.10.4.

(2) If the *data estimation entity's* calculation of *net system load* for <u>any *historical gas day i* in the historical period</u> for *gas day* D under clause 5.10.9(1) produces a negative number or the *data estimation entity* does not receive the EUAFG, the *data estimation entity* must:

(a) instead of calculating *net system load* as set out in clause 5.10.9(1), determine the *net system load* for the *gas day* using the *like day substitution methodology*; and

(b) calculate a "**revised estimate of unaccounted for gas**" to use in its calculations under this section 5.10 and section 5.11 as follows:

$$RUAFG = TCI - \sum UIW - NSL$$

where:

RUAFG = the revised estimate of *unaccounted for gas* for the *sub-network* for the *gas day D*.

TCI = the *total corrected injections* for the *sub-network* for the *gas day D* calculated under clause 5.10.6.

UIW = the *interval-metered withdrawals* for the *gas day D* for each *user* in the *sub-network* as calculated at clause 5.10.8.

NSL = like day substitution for the *net system load* for the *sub-network* for the *gas day D* calculated under clause 5.10.9(2)(a).

and

(c) for each *user* notified to the *data estimation entity* as a supplier of *UAFG* for the *sub-network* under clause 5.10.3 for the most recent *gas day D* for which no *revised estimate of unaccounted for gas* was required to be calculated under this clause 5.10.9(2) (**"last valid day"**), calculate the **"revised user's unaccounted for gas"** as follows:

$$RUUAFG_u = \frac{UUAFG_u}{\sum\limits_{All\,users} UUAFG} \times RUAFG$$

where:

$RUUAFG_u$ = the revised *user's unaccounted for gas* for the *sub-network* for the *gas day D*.

$UUAFG_u$ = the *user's unaccounted for gas* for the *sub-network* for the *gas day D* as notified under clause 5.10.3.

$\sum UUAFG$ = the sum of the *user's unaccounted for gas* for all suppliers of *UAFG* for the *sub-network* for the *gas day D* as notified under clause 5.10.3.

$RUAFG$ = the revised *unaccounted for gas* for the *sub-network* for the *gas day D* calculated under 5.10.9(2)(b).

5.10.10. The data estimation entity to notify network operator. [RMR][223(2)(c)]

If the *data estimation entity* calculates a revised UUAFG under clause 5.10.9(2)(c), no later than 4.5 hours after the end of the *gas day* the *data estimation entity* must notify the *user* and the *network operator,* by means of an *automated electronic file*, of following information for each *sub-network:*

RUAFG: *Revised user's unaccounted for gas*

Gas day

Sub-network

User GBO Identifier

Users unaccounted for gas

Notification format defined in [ICD][RUAFG – Revised User's unaccounted for gas].

5.10.11. Raw estimated withdrawal for basic delivery points [RMR][224]

For each *basic-metered delivery point* for each *sub-network* for each *gas day* D in the period of calculation, the *data estimation entity* must calculate the "**raw estimated basic withdrawal**" using one of the method in 5.10.11(1) or **Error! Reference source not found.**.

(1) Calculate the raw estimated basic withdrawal using the following apportionment factor methodology

$$REBW = \frac{\sum DABW_{Historical} + \sum EBW_{Historical}}{\sum NSL_{Historical}} \times NSL$$

where:

REBW = the raw-estimated basic withdrawal for the basic-metered delivery point for gas day D.

$\Sigma\,DABW_{Historical}$ = the sum of the *distributed actual basic-metered withdrawals* at the *basic-metered delivery point* for each *gas day* in the inclusive period from *gas day D-410* to *gas day D-321* as calculated under clause 5.11.1

$\Sigma\,EBW_{Historical}$ = for each *gas day* for which a *distributed actual basic-metered withdrawal* is unavailable in the inclusive period from *gas day* D-410 *to gas day* D-321 the sum of the *estimated basic-metered withdrawal* at the *basic-metered delivery point*, where the *estimated basic-metered withdrawal* is determined using clause 3.1.4(e) for new *delivery points* and otherwise using clause 5.10.14.

$\Sigma\,NSL_{Historical}$ = the sum of the *net system load* [(as revised if applicable)] for the *sub-network* for each *gas day* in the inclusive period from *gas day D-410* to *gas day D-321* calculated under clause 5.10.9(1).

NSL = the *net system load* for the sub-network for *gas day D* calculated under clause 5.10.9.

5.10.12. Normalisation factor for estimated basic withdrawal [RMR][225]

For each *sub-network* for each *gas day D* in the period of the calculation the *data estimation entity* must calculate a **"normalisation factor"** for the *active basic-metered delivery points* in the *sub-network* as follows:

$$NF = \frac{NSL}{\sum REBW}$$

where:

NF = the *normalisation factor* for active *basic-metered delivery points* in the *sub-network* for the *gas day* D; and

NSL = the *net system load* for the *sub-network* for the *gas day D* as calculated under clause 5.10.9; and

REBW = the raw *estimated basic-metered withdrawal* for each active *basic-metered delivery point* in the *sub-network* for the *gas day D* as calculated under clause 5.10.11.

5.10.13. Estimated basic-metered withdrawal for each basic-metered delivery points [RMR][226]

For each *active basic-metered delivery point* for each *sub-network* for each *gas day* in the period of the calculation the *data estimation entity* must calculate the **"estimated basic withdrawal"** for the *gas day D* as follows:

$$EBW = REBW \times NF$$

where:

EBW = the *estimated basic withdrawal* for the active *basic-metered delivery point* in the *sub-network* for the *gas day D*; and

NF = the *normalisation factor* for *basic-metered delivery points* in the *sub-network* for the *gas day* D as calculated under clause 5.10.12; and

REBW = the raw *estimated basic-metered withdrawal* for each active *basic-metered delivery point* in the *sub-network* for the *gas day* D as calculated under clause 5.10.11.

5.10.14. User's estimated basic-metered withdrawals [RMR][227]

For each *user* for each *sub-network*, the *data estimation entity* must calculate the **"user's estimated basic-metered withdrawals" ("UEBW")** for *gas day D* as follows:

$$UEBW = \sum EBW$$

where:

UEBW = the *user's estimated basic-metered withdrawals* from the *sub-network* for *gas day D*; and

EBW = the *estimated basic-metered withdrawal* for each of the *user's* active *basic-metered delivery point* in the *sub-network* for *gas day D* as calculated under clause 5.10.13.

5.10.15. User's estimated total withdrawals [RMR][228(1)]

For each *user* for each *sub-network*, the *data estimation entity* must determine the *user's estimated total withdrawals* for *gas day D* as follows:

$$UETW = UIW + UEBW + UUAFG + URAA + SSRA$$

where:

UETW = the user's estimated total withdrawals for the sub-network for the gas day D; and

UIW = the *user's interval-metered withdrawals* for the *gas day D* as calculated under clause 5.10.8; and

UEBW = the *user's estimated basic-metered withdrawals* for the *gas day D* as calculated under clause 5.10.14; and

UUAFG = any *UAFG* supplied by the *user* for the *gas day D* as notified under clause 5.10.3 or revised under clause 5.10.9(2)(b); and

URAA = the *user's reconciliation adjustment amount* as notified under clause 5.11.21 for injection under clause 5.11.19 on *gas day* D; and

SSRA = the *user's swing service repayment amount* for repayment on *gas day D* as calculated under clause 5.17.28.

5.10.16. The data estimation entity to notify the user and relevant network operator. [RMR][228(2)]

Within 5 hours after the end of *gas day D*, for each *user* for each *sub-network* the *data estimation entity* must notify, by means of an *automated electronic file*, the *user* of the following information for each *sub-network:*

(1) notify, by means of an *automated electronic file*, each *user* for each *sub-network* of the *user's total estimated withdrawal* for the *sub-network* for *gas day D*,

UETW: User's total estimated withdrawal

User GBO Identifier

Gas Day

Sub-Network

User's estimated total withdrawal

User's interval-metered withdrawals

User's unaccounted for gas

User's reconciliation adjustment amount

User's swing service repayment amount

    Notification format defined in [ICD][UETW – User's total estimated withdrawal].

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(2) notify, by means of an *automated electronic file*, each *user* for each *sub-network* of the *interval-metered withdrawals* for each of the *user's interval-metered delivery points* in the *sub-network* for each *historical gas day* i in the historical period for *gas day D*, received in the last 7 days from the *Network Operator* under clause 4.4.11(2)

INTMR: *Interval Meter Reading Data*

Gas day

Delivery Point Identifier

Hourly consumptions

Total Daily Consumption

Notification format defined in [ICD][INTMR – Interval Meter Reading Data]; and

5.11. **Reconciliation**

5.11.1. Calculate distributed actual basic-metered withdrawal [RMR][232]

For each *basic-metered delivery point* for each *gas day D* on which the *data estimation entity* receives an *actual value* (**"latest read"**) for the *basic metered delivery point*, the *data estimation entity* must determine the **"distributed actual basic-metered withdrawal"** (**"DABW"**) for each *gas day* in the *metering period* (including the *gas day* of the *latest read*) using one of the following methodologies:

(1) The flat sculpting period for actual *meter readings*

$$DABW_i = \frac{AQ}{Days}$$

where

i = the number of a *gas day* in the *metering period*; and

$DABW_i$ = distributed actual basic-metered withdrawal for gas day i in the metering period; and

AQ = energy quantity of gas shown by the *latest read* as being withdrawn at the *basic-metered delivery point* during the *metering period*; and

Days = the number of gas days in the metering period.

5.11.2. Reconciliation amount for basic-metered delivery point. [RMR][233]

For each delivery point for each *gas day* in the period of the reconciliation calculation the *data estimation entity* must determine the **"daily basic-meter reconciliation amount"** for the *basic metered delivery point* for the *gas day* in accordance with the following:

(1) Where the *data estimation entity* has not calculated the *distributed actual basic-metered withdrawal* under clause 5.11.1 for the *basic-metered delivery point* for *historical gas day i* then:

$$BRA = 0$$

where:

BRA = the *basic-meter reconciliation amount* for the *basic-metered delivery point* for the *gas day*.

(2) Where the *data estimation entity* has calculated the *distributed actual basic-metered withdrawal* under clause 5.11.1 for the *basic-metered delivery point* for *historical gas day i* then:

$$BRA = DABW - EBW$$

where:

BRA = *basic-meter reconciliation amount* for the *basic-metered delivery point* for *historical gas day* I; and

DABW = the *distributed actual basic-metered withdrawal* for *gas day i* as calculated under clause 5.11.1; and

EBW = the *estimated basic-metered withdrawal* for the *gas day i* as calculated under clause 5.10.13.

5.11.3. User's summed reconciliation amount for its basic-metered delivery points [RMR][233]

For each *user* for each *sub-network* for each *gas day* D in the period of the reconciliation calculation the *data estimation entity* must determine the *user's* the **"summed basic-meter reconciliation amount"** (**"SRA"**) for each *historical gas day i* as follows:

$$SBRA = \sum BRA$$

where:

SBRA = the *user's summed basic-meter reconciliation amount* for the *gas day*; and

BRA = the *basic-meter reconciliation amount* for each of the *user's basic-metered delivery points* in the *sub-network* for the *gas day*, calculated under clause 5.11.2.

5.11.4. User's delta summed basic-meter reconciliation amount [RMR][234]

For each *user* for each *sub-network* for each *gas day D*, *REMCo* must calculate the **"delta summed basic-meter reconciliation amount"** for each *historical gas day i* as follows:

$$\Delta SBRA_i^D = SBRA_i^D - SBRA_i^{D-1}$$

where:

$\Delta SBRA_i^D$ = the *user's delta summed basic-meter reconciliation amount* for the *sub-network* for *historical gas day* i for *gas day D*; and

$SBRA_i^D$ = the *user's summed basic-meter reconciliation amount* for the *sub-network* for *historical gas day* i for *gas day D* calculated under clause 5.11.3; and

$SBRA_i^{D-1}$ = the *user's summed basic-meter reconciliation amount* for the *sub-network* for *historical gas day* i for *gas day* D-1 calculated under clause 5.11.3; and

i = a *historical gas day* i in the range of *gas day D-1 to gas day D-425*.

5.11.5. User's total basic-meter reconciliation amount [RMR][235]

For each *user* for each *sub-network,* the *data estimation entity* must calculate the *user's* **"total basic-meter reconciliation amount"** (**"TBRA"**) for *gas day D* as follows:

$$TBRA = \sum_{i=D-425}^{D-1} (\Delta SBRA_i^D)$$

where:

TBRA = the *user's total basic-meter reconciliation amount* for the *sub-network* for *gas day D*; and

$\Delta SBRA_i^D$ = the *user's delta summed basic-meter reconciliation amount* for the *sub-network* for *historical gas day i* calculated under clause 5.11.4 for *gas day D*; and

i = a *historical gas day i* in the range of *gas day D-1 to gas day D-425*.

5.11.6. User's total interval-meter reconciliation amount [RMR][236]

For each *user* for each *sub-network*, the *data estimation entity* must calculate the *user's* **"total interval-meter reconciliation amount"** (**"TIRA"**) for *gas day D* as follows:

$$TIRA = \sum_{i=D-425}^{D-1} (UIW_i^D - UIW_i^{D-1})$$

where:

TIRA = the *user's total interval-meter reconciliation amount* for the *sub-network* for *gas day D*; and

UIW_i^D = the *user's interval-metered withdrawals* for the *sub-network* for *historical gas day i* as calculated under clause 5.10.8 for *gas day D*; and

UIW_i^{D-1} = the *user's interval-metered withdrawals* for the *sub-network* for *historical gas day i* as calculated under clause 5.10.8 on day D-1; and

i = a *historical gas day i* in the range of *gas day D-1 to gas day D-425*.

5.11.7. User's reconciliation amount for basic-metered withdrawal [RMR][237]

For each *user* for each *sub-network*, the *data estimation entity* must determine the *user's* **"total basic-meter withdrawal reconciliation amount"** (**"TBWRA"**) for *gas day D* as follows:

$$TBWRA = \sum_{i=D-425}^{D-1} (UEBW_i^D - UEBW_i^{D-1})$$

where:

TBWRA = the *user's total basic-meter withdrawal reconciliation amount* for the *sub-network* for *gas day D*; and

$UEBW_i^D$ = the *user's estimated basic-metered withdrawal* for the *sub-network* for *historical gas day i* as calculated under clause 5.10.14 on *gas day D*; and

$UEBW_i^{D-1}$ = the *user's estimated basic-metered withdrawal* for the *sub-network* for *historical gas day i* as calculated under clause 5.10.14 on *gas day D-1*; and

i = a *historical gas day i* in the range of *gas day D-1 to gas day D-425*.

5.11.8. Revisions to gatepoint metering data [RMR][238]

(1) If a *network operator* receives revised *gate point metering data* from a *pipeline operator* in respect of a *gate point* for a *gas day*, as soon as practicable, the *network operator* must provide the revised *gate point metering data* to the *data estimation entity*.

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(2) At the time of providing revised *gate point metering data* for a *gas day* to *REMCo* under rule 5.11.8(1), the *network operator* may also provide to *REMCo* a revised estimate of *UAFG* for the *gas day* to *REMCo*.

5.11.9. Delta pipeline injection [RMR][238(3)]

For each *gate point*, the *data estimation entity* must calculate the **"delta pipeline injection"** (**"ΔPI"**) for each *historical gas day i* for each *gas day D* as follows:

$$\Delta PI_i^D = PI_i^D - PI_i^{D-1}$$

where:

ΔPI_i^D = the *delta pipeline injection* for the *gate point* for each *historical gas day i* for *gas day D*; and

PI_i^D = the *pipeline injection* for the *gate point* for a *historical gas day i* for *gas day D*; and

PI_i^{D-1} = the *pipeline injection* for the *gate point* for a *historical gas day i* for *gas day D-1*; and

i = a *historical gas day i* in the range of *gas day D-425* to *gas day D-1*.

5.11.10. Total delta pipeline injection [RMR][238(4)]

For each *gate point*, *the data estimation entity* must calculate the **"total delta pipeline injection"** (**"TΔPI"**) for each *gas day D* as follows:

$$T\Delta PI^D = \sum_{i=D-425}^{D-1} \left(\Delta PI_i^D \right)$$

where:

$T\Delta PI^D$ = the *total delta pipeline injection* for the *gate point* for *gas day D*; and

ΔPI_i^D = the *delta pipeline injection* for the *gate point* for a *historical gas day i* for *gas day D*; and

i = a *historical gas day i* in the range of *gas day D-425* to *gas day D-1*.

5.11.11. Total delta basic-meter reconciliation amount [RMR][240(1)]

For each *sub-network* for each *gas day D*, *the data estimation entity* must calculate the **"total delta basic-meter reconciliation amount"** for each *historical gas day i* as follows:

$$T\Delta SBRA_i^D = \sum_{All\,users} \Delta SBRA_i^D$$

where:

$T\Delta SBRA_i^D$ = the *total delta basic-meter reconciliation amount* for the *sub-network* for *historical gas day i* for *gas day D*; and

$\Delta SBRA_i^D$ = the *delta summed basic-meter reconciliation amount* for each *user* for the *sub-network* for *historical gas day i* calculated for *gas day D*.

5.11.12. Delta unaccounted for gas [RMR][240(2)]

For each *sub-network* for each *gas day D*, the *data estimation entity* must calculate the **"delta unaccounted for gas"** (**"ΔUAFG"**) for each *historical gas day i* for *gas day D* as follows:

$$\Delta UAFG_i^D = EUAFG_i^D - EUAFG_i^{D-1}$$

where:

$\Delta UAFG_i^D$ = the *delta unaccounted for gas* for the *sub-network* for *historical gas day i* for *gas day D*; and

$EUAFG_i^D$ = the *EUAFG* for the *sub-network* for *historical gas day i* for *gas day D* provided to *the data estimation entity*; and

$EUAFG_i^{D-1}$ = the *EUAFG* for the *sub-network* for *historical gas day i* for *gas day D-1* provided to *the data estimation entity*, as applicable.

5.11.13. User's daily unaccounted for gas reconciliation amount [RMR][240(3)]

For each *user* for each *sub-network* for each *gas day D*, the *data estimation entity* must calculate the **"daily unaccounted for gas reconciliation amount"** for each *historical gas day i* as follows:

$$UDURA_{i\,u}^D = \frac{UUAFG_u}{\sum\limits_{All\,users} UUAFG_u} \times \left(\Delta UAFG_i^D - T\Delta SBRA_i^D \right)$$

where:

$UDURA_{i\,u}^D$ = the *user's daily unaccounted for gas reconciliation amount* for *user* u for *historical gas day i* for *gas day D*; and

$UUAFG_u$ = the *user's unaccounted for gas* for *user u* for *gas day D* notified under clause 5.10.3 and

$\Delta UAFG_i^D$ = the *delta unaccounted for gas* for the *sub-network* for *historical gas day i* for *gas day D*; and

$T\Delta SBRA_i^D$ = the *total delta summed basic-meter reconciliation amount* for the *sub-network* for *historical gas day i* for *gas day D*; and

i = a *historical gas day i* in the range of *gas day D-1* to *gas day D-425*.

5.11.14. User's unaccounted for gas reconciliation amount [RMR][241]

For each *sub-network*, for each *user* notified to the *data estimation entity* as a supplier of *UAFG* under clause 5.10.3 for *gas day D*, the *data estimation entity* must calculate the **"unaccounted for gas reconciliation amount"** for *gas day D* (**"UUAFGRA")** as follows:

$$UUAFGRA = \sum_{i=D-425}^{D-1} UDURA_i^D$$

where:

$UUAFGRA$ = the *user's unaccounted for gas reconciliation amount* for the *sub-network* for *gas day D*; and

$UDURA$ = the *user's daily unaccounted for gas reconciliation amount* for the *sub-network* for *historical gas day i* for *gas day D* calculated under clause 5.11.12.

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5.11.15. Miscellaneous reconciliation amount [RMR][239]

(1) For each *sub-network*, the *RMA* may, after consultation with the *network operator* determine that a *miscellaneous reconciliation amount* (**"MRA"**) for *gas day D* for any one or more *users* in the *sub-network* or for the *sub-network*.

(2) If the *RMA* determines a *miscellaneous reconciliation amount* under clause 5.11.15(1), the *RMA* must notify the *data estimation entity,* by means of *notice*, of the amount of the *miscellaneous reconciliation amount* and the *user* or the *sub-network* to which it applies.

Notification format defined in [ICD] [MRA-NOTF – Miscellaneous reconciliation amount notice].

5.11.16. User's total reconciliation amount [RMR][242]

For each *user* for each *sub-network,* the *data estimation entity* must calculate the *user's* **"total reconciliation amount"** for the *sub-network* for *the gas day D* as follows:

$$TRA = TBRA + TIRA + TBWRA + UUAFGRA + \sum MRA$$

where:

TRA = the *user's total reconciliation amount* for the *sub-network* for *gas day D*; and

TBRA = the *user's total basic-meter reconciliation amount* for the *sub-network* for *gas day D* as calculated under clause 5.11.5; and

TIRA = the *user's total interval-meter reconciliation amount* for the *sub-network* for *gas day D* as calculated under clause 5.11.6; and

TBWRA = the *user's total basic-meter withdrawal reconciliation amount* for the *sub-network* for *gas day D* as calculated under clause 5.11.7; and

UUAFGRA = means any *unaccounted for gas reconciliation amounts* for the *user* for *gas day D* as calculated under clause 5.11.14; and

MRA = each of the *user's miscellaneous reconciliation amounts* for the *sub-network* for *gas day D* as notified under clause 5.11.8.

5.11.17. Reconciliation amounts repayment period [RMR][243(3)]

The repayment period for the reconciliation amounts is 28 days.

5.11.18. User's reconciliation adjustment amount [RMR][243(1)]

For each *user* for each *sub-network* the *data estimation entity* must calculate the **"user's reconciliation adjustment amount"** for *gas day D* as follows:

$$URAA_D = \sum_{i=D-(X-1)}^{D} \frac{TRA_i}{X}$$

where:

$URAA_D$ = the *user's reconciliation adjustment amount* for the *sub-network* for *gas day* D; and

TRA_i = *user's total reconciliation amount* for the *sub-network* for *gas day* i as calculated under clause 5.11.16; and

i = the number of a *gas day* from *gas day D-(X-1)* to *gas day D; and*

X = the repayment period.

5.11.19. Gate point adjustment amount [RMR][243(2)]

For each *gate point*, *REMCo* must calculate the **"gate point adjustment amount"** for *gas day D* as follows:

$$GAA^D = \sum_{i=D-(X-1)}^{D} \frac{T\Delta PI_i^D}{X}$$

where:

GAA^D = the *gate point adjustment amount* for the *gate point* for *gas day D*; and

$T\Delta PI_i^D$ = the *total delta pipeline injection* for the *gate point* for *gas day i*;

i = the number of a *gas day* from *gas day D-(X-1)* to *gas day D; and*

X = the repayment period.

The value to be used for the variable in clause 5.11.18 and 5.11.19 is: $X = 28$.

5.11.20. Timing of injection of reconciliation amounts [RMR][245]

A *user* must ensure that the *user's reconciliation adjustment amount* arising from *gas day D* is included in the amount it procures under 5.2.1 for *injection* on *gas day D+3*.

{Example: The URAA which relates to gas flows on the Monday *gas day* (*gas day D*), will be calculated before the end of the Tuesday *gas day* and must be *injected* on the Thursday *gas day* (*gas day D+3*).

5.11.21. REMCo calculates actual UAFG [RMR][230(1)]

For each *sub-network* for each *gas day D*, *the data estimation entity* must calculate the **"actual UAFG"** for each *historical gas day* as follows:

$$AUAFG = EUAFG - \sum SBRA$$

where:

$AUAFG$ = the *actual UAFG* for the *sub-network* for *gas day D* for the *historical UAFG day; and*

$EUAFG$ = the estimated *UAFG* for the *sub-network* for *gas day D* for the *historical UAFG day; and*

$\sum SBRA$ = the sum of all *user's summed basic meter-read reconciliation amounts* for the *sub-network* for the *historical UAFG day*.

It can be derived that this formula is a mathematicaly equivalent to the formula presented in the rule 230 of the RMR:

$$AUAFG = -\sum(PI) - \sum(UIW) - \sum(UBW)$$

where *UBW* is actual where actual is available otherwise it is an estimate.

Rule 223 states:

$$NSL = TCI - \sum(UIW) - EUAFG$$

Therefore:

$$\sum(UIW) = TCI - NSL - EUAFG$$

Substitute the AUAFG formula:

$$AUAFG = \sum(PI) - (TCI - NSL - EUAFG) - \sum(UBW)$$

$$AUAFG = \sum(PI) - TCI + NSL + EUAFG - \sum(UBW)$$

Rule 221 states:

$$TCI = \sum(PCI) - \sum(SRQ) - \sum(URAA)$$

Substitute the AUAFG formula:

$$AUAFG = \sum(PI) - (\sum(PCI) - \sum(SRQ) - \sum(URAA)) + NSL + EUAFG - \sum(UBW)$$

$$AUAFG = \sum(PI) - \sum(PCI) + \sum(SRQ) + \sum(URAA) + NSL + EUAFG - \sum(UBW)$$

Because $\sum(SRQ) = 0$ the formula could be simplified:

$$AUAFG = \sum(PI) - \sum(PCI) + \sum(URAA) + NSL + EUAFG - \sum(UBW)$$

Rule 228 states:

$$PCI = PI + GAA$$

Substitute the AUAFG formula:

$$AUAFG = \sum(PI) - \sum(PI + GAA) + \sum(URAA) + NSL + EUAFG - \sum(UBW)$$

$$AUAFG = \sum(PI) - \sum(PI) - \sum(GAA) + \sum(URAA) + NSL + EUAFG - \sum(UBW)$$

Simplify the AUAFG formula by removing $\pm\sum(PI)$:

$$AUAFG = \sum(GAA) + \sum(URAA) + NSL + EUAFG - \sum(UBW)$$

Because $\sum(GAA) = \sum(URAA)$ the formula could be simplified:

$$AUAFG = NSL + EUAFG - \sum(UBW)$$

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Because $NSL = \sum (UEBW)$ the formula could be substituted:

$$AUAFG = \sum (UEBW) + EUAFG - \sum (UBW)$$

Re-organising the formula produces:

$$AUAFG = EUAFG + \sum (UEBW) - \sum (UBW)$$

Apply simple math – putting brackets around an equation:

$$AUAFG = EUAFG + (\sum (UEBW) - \sum (UBW))$$

Apply simple math – putting negative in front of brackets:

$$AUAFG = EUAFG - (\sum (UBW) - \sum (UEBW))$$

Apply simple math – putting sum in front of brackets:

$$AUAFG = EUAFG - \sum ((UBW) - (UEBW))$$

Apply simple math – remove extra brackets:

$$AUAFG = EUAFG - \sum (UBW - UEBW)$$

By incorporating the summing for user as follows:

$$AUAFG = EUAFG - \sum (User \sum (BW) - UserSum(EBW))$$

$$AUAFG = EUAFG - \sum (UserSum(BW - EBW))$$

Remember the BW is actual where actual is available and an estimate otherwise.

The rule 233 defines the calculation of basic reconciliation amount as:

$BRA = 0$ where no actual available

$BRA = DABW - EBW$ where actual available

When taking $BW - EBW$ from the formula it can be said that:

If actual available then $BW - EBW$ is $DABW - EBW$

If actual is not available then $BW - EBW$ is $EBW - EBW$; therefore zero

It can be seen that *BRA* is in reality $BW - EBW$

Once again incorporating into the formula:

$$AUAFG = EUAFG - \sum(UserSum(BW - EBW))$$

$$AUAFG = EUAFG - \sum(UserSum(BRA))$$

Which as per rule 234:

$$AUAFG = EUAFG - \sum(SBRA)$$

5.11.22. The data estimation entity to notify participants [RMR][230(2),244(a), (d) & (e), 240(2)]

Before the end of *gas day D+1*, the *data estimation entity* must notify participants about the reconciliation calculation results as follows:

(1) for each *user* for each *sub-network* notify, by means of an *automated electronic file*, each *user and network operator* for each *sub-network* of:

(a) the *user's reconciliation amount* for the *sub-network* for *gas day D* calculated under clause 5.11.16 and the amount of each component contained in the *user's total reconciliation amount*; and

(b) the *user's reconciliation adjustment amount* for the *sub-network* for *gas day D* calculated under clause 5.11.18,

TRA: *User's total reconciliation amount*

User GBO Identifier

Gas day

Sub-network

User's total reconciliation amount

User's total basic-meter reconciliation amount

User's total interval-meter withdrawal reconciliation amount

User's total basic-meter withdrawal reconciliation amount

User's miscellaneous reconciliation amounts

User's unaccounted for gas reconciliation amount

User's reconciliation adjustment amount

Notification format defined in [ICD][TRA – User's total reconciliation amount]; and

(2) for each *sub-network* notify, by means of an *automated electronic file*, each *user and network operator* for each *historical gas day i* of:

(a) the *user's delta summed basic-meter* reconciliation *amount* for the *sub-network* for *gas day D* (**"$\Delta SBRA_i^D$"**) calculated under clause 5.11.4; and

(b) the *user's delta basic-meter withdrawal reconciliation amount* for the *sub-network* for *gas day D* (**"$\Delta BWRA_i$"**) calculated under calculated under clause 5.11.7,

UHRA: *User's historical gas day reconciliation amounts*

User GBO Identifier

Gas day

Sub-network

Historical Gas Day

User's delta summed basic-meter reconciliation amount

User's delta basic-meter withdrawal reconciliation amount

User's daily unaccounted for gas reconciliation amount

> *Notification format defined in [ICD][UHRA – User's historical gas day reconciliation amounts];* and

(3) notify, by means of an *automated electronic file*, each *user* and each *network operator* for each *sub-network* for each *historical gas day i* in the *historical period* for *gas day D* of:

(a) the *normalisation factor* calculated under clause 5.10.12; and

(b) the *net system load* calculated under clause 5.10.9,

NORM-NSL: *Normalisation Factor and Net System Load*

Gas day

Sub-network

Historical gas day

Normalisation factor

Net system load

> *Notification format defined in [ICD][NORM-NSL – Normalisation Factor and Net System Load];* and

(4) for each *sub-network* notify, by means of an *automated electronic file*, each *user, the network operator* and *the pipeline operator* of*:*

(a) the *total delta pipeline injection* for each *gate point* for *gas day D*; and

(b) the *gate point adjustment amount* for each *gate point*,

GAA: *Gatepoint adjustment amount*

Gate Point Identifier

Gas day

Total delta pipeline injection

Gatepoint adjustment amount

> *Notification format defined in [ICD][GAA – Gate point adjustment amount];* and

(5) for each *sub-network* notify, by means of an *automated electronic file*, the *network operator* and each *supplier of unaccounted for gas*, of the *actual UAFG* calculated under clause 5.11.21.

AUAFG: *Actual unaccounted for gas*

Sub-network

Actual unaccounted for gas

> *Notification format defined in [ICD] [AUAFG – Actual unaccounted for gas amount];* and

> *(6)* for each *sub-network* notify, by means of an *automated electronic file*, each *user and network operator* for each *historical gas day i* of the *user's total estimated withdrawal* for the *sub-network* calculated for *gas day D* and all of it's component.

UETW_HST: *Historical user's withdrawal data*

Gas day

Sub-network

Historical Gas Day

User GBO Identifier

User's total estimated withdrawal

User's interval-metered withdrawal

User's basic-meter withdrawal
User's unaccounted for gas

User's reconciliation adjustment amount

User's swing service repayment amount

User's actual basic withdrawal

> *Notification format defined in [ICD][UETW_HST– Historical user's withdrawal data];* and

5.11.23. The RMA to notify users and network operators of miscellaneous reconciliation amounts [RMR][244(b)]

If the user's total reconciliation amount for gas day D contains a miscellaneous reconciliation amount, the RMA must notify, by means of a notice, each user and network operator of each sub-network for which a miscellaneous reconciliation amount is contained in the total reconciliation amount of the following:

(a) information regarding the event that gave rise to the *RMA's* determination of the *miscellaneous reconciliation amount*; and

(b) the sum, across all *users* in the *sub-network*, of the *miscellaneous reconciliation amounts* that arose from the event referred to in clause 5.11.23(a); and

(c) the *gas day* or *gas days* in respect of which the *miscellaneous reconciliation amount* arose; and

(d) details regarding the approach used by the *RMA* to determine the *miscellaneous reconciliation amount*;

5.12. **Deemed Injections and Withdrawals**

5.12.1. Deemed injections [RMR][246]

For each *shipper* or *swing service provider* for each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate "**deemed injections**" for the *pipeline* as follows:

(1) The *swing service provider's deemed injection* for the *pipeline* for the *sub-network* for the *gas day* is determined by summing all *swing service repayment quantities* for the *swing service provider* for the *gas day* across all *users* in the *sub-network*.

(2) The *shipper's deemed injection* for the *pipeline* for the *sub-network* for the *gas day* is determined by:

(a) first, for each *user* in the *sub-network*, taking the *user's estimated total withdrawals* for the *sub-network* for the *gas day* calculated under clause 5.10.15 less *user's swing service repayment quantities* for the *user* for the *sub-network* for the *gas day* and allocating it across *shippers* in accordance with the *user's allocation instruction* for the *gas day*;

(b) then summing all amounts allocated by *user* to the *shipper* under 5.12.1(2)(a).

(3) To avoid doubt, if clause 5.2.1 requires a *user* to procure the *injection* into the *sub-network* of a negative amount of gas on a *gas day D*, that negative amount may result in a negative *shipper's deemed injection* for *gas day D*.

5.12.2. The data estimation entity to notify deemed injections [RMR][246]

Within 5 hours after the end of *gas day D*, the *data estimation entity* must notify each *shipper* or *swing service provider* (as applicable) and relevant *pipeline operator,* by means of an *automated electronic file*, of the *shipper's deemed injections* for the *pipeline*.

DI: *Deemed injections*

Participant GBO Identifier

Gas day

Sub-network

User GBO Identifier

The deemed injection

> *Notification format defined in [ICD][DI – Deemed injections].*

5.12.3. User's deemed withdrawal for a pipeline. [RMR][248]

(1) For each *user* for each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the *user's deemed withdrawal* for that *pipeline* ("**UDW**") by:

(a) first, taking the *user's estimated total withdrawals* in the *sub-network* for the *gas day* calculated under clause 5.10.15 and allocating it across *shippers*:

> (i) for that part of the *user's estimated total withdrawals* that is the *user's swing service repayment amount* for the *sub-network* for *gas day D* – in accordance with the *user's swing service repayment amount apportionment quantities* for *gas day D*; and

(ii) for the remainder of the *user's estimated total withdrawals* – in accordance with the *user's allocation instruction* for *gas day D*;

and

(b) then, summing the amounts calculated under clause 5.12.3(1)(a) in respect of all *shippers* on the relevant *pipeline*.

(2) To avoid doubt, if clause 5.2.1 requires a *user* to procure the *injection* into the *sub-network* of a negative amount of gas on a *gas day D*, that negative amount may result in negative *user's deemed withdrawals* for *gas day D*.

5.12.4. The data estimation entity to notify users of their user's total deemed withdrawal. [RMR][248]

Within 5 hours the *data estimation entity* must notify the each *user,* by means of an *automated electronic file*, of the following information for each *sub-network:*

UDW: *User's deemed withdrawal*

User's GBO Identifier

Gas Day

Sub-network

Pipeline

Deemed Withdrawal

Notification format defined in [ICD][UDW – User's total deemed withdrawal].

5.13. **Delivery point apportionment – Western Australia**

5.13.1. Actual allocation proportion [RMR][249]

For each *user* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the *user*'s **"actual allocation proportion"** for each *shipper* named in the *allocation instruction*, which is expressed as a percentage and is calculated as follows:

(a) if the *user's allocation instruction* is expressed solely in terms of percentages — is the same as the percentage allocated to the *shipper* in the *allocation instruction*; and

(b) otherwise — the *actual allocation proportion* for each *shipper* is calculated as follows:

$$AAP = \frac{SA}{UETW - SSRA}$$

where:

AAP = the *user's actual allocation proportion* for the *shipper* for the *sub-network* for the *gas day*;

SA = the **"shipper's amount"** which is calculated by:

(i) applying the user's allocation instruction for the sub-network for the gas day;

(ii) to the *user's estimated total withdrawals* for the *sub-network* for the *gas day* calculated under clause 5.10.15, minus the *user's swing service repayment amount* for the *sub-network* for the *gas day* calculated under clause 5.17.26;

UETW = the *user's estimated total withdrawals* for the *gas day* calculated under clause 5.10.15.

SSRA = the *user's swing service repayment amount* for repayment on *gas day D* calculated under clause 5.17.28.

5.13.2. Allocation proportions apply at delivery points [RMR][250]

Wherever it is necessary for these clauses or a *haulage contract* to apportion a *user's* gas withdrawals at a *delivery point for a gas day* between *shippers*, the withdrawals are to be apportioned using the *user*'s *actual allocation proportion* for the *gas day* for the relevant *sub-network*.

5.14. **Hourly gate point apportionment – Western Australia**

5.14.1. User's hourly interval-metered withdrawals [RMR][251]

For each *user* for each *sub-network* for each hour for each *gas day*, the *data estimation entity* must calculate the *user's* " **hourly interval-metered withdrawals" ("HIW")** as follows:

$$HIW = \sum HW$$

where:

HIW = the *user's hourly interval-metered withdrawals* for the *sub-network* for the hour for the *gas day*; and

HW = the *interval-metered withdrawals* for each of the *user's interval-metered delivery points* in the *sub-network* for the hour for the *gas day* provided to the *data estimation entity..*

5.14.2. Hourly net system load apportionments [RMR][252(1)(a)]

For each sub-network for each gas day, the data estimation entity must calculate the hourly net system load for the sub-network as follows:

$$HNSL = \sum HG - \sum HIW - \left(\frac{EUAFG}{24}\right) - \left(\frac{\sum SSRA}{24}\right) - \left(\frac{\sum URAA}{24}\right) + \left(\frac{\sum GAA}{24}\right)$$

where:

HNSL = the hourly net system load for the sub-network for the hour; and

HG = the as-retrieved energy inflow data for each gate point in the sub-network for the hour provided to the data estimation entity under clause 5.8.2; and

HIW = the hourly interval-metered withdrawals for the sub-network for each user in the sub-network for the hour calculated under clause 5.14.1; and

EUAFG = the estimate of UAFG provided by the network operator for the sub-network for the gas day under clause 5.10.3; and

SSRA = the swing service repayment amount for each user for the sub-network for the gas day calculated under clause 5.17.26; and

URAA= the user's reconciliation adjustment amount for each user for the sub-network for the gas day calculated under clause 5.11.18; and

GAA = each gate point adjustment amount to correct the pipeline injections for a gate point for the gas day.

5.14.3. User's hourly basic-metered withdrawal [RMR][252(1)(b)]

For each user for each sub-network for each gas day, the data estimation entity must calculate the user's hourly basic-meter withdrawals for the sub-network as follows:

$$HBW = HNSL \times \left(\frac{UEBW}{NSL}\right)$$

where:

HBW = the hourly basic-meter withdrawals for the sub-network; and

HNSL = the hourly net system load for the sub-network for the hour calculated under clause 5.14.2; and

UEBW = the user's estimated basic-metered withdrawals for the sub-network for the gas day under clause 5.10.14; and

NSL = the net system load for the sub-network for the gas day calculated under clause 5.10.9.

5.14.4. User's hourly sub-network apportionment [RMR][252(1)(c)]

For each user for each sub-network for each gas day, the data estimation entity must calculate the user's hourly (non-swing) sub-network apportionment as follows:

$$UHSA = HIW + HBW + \left(\frac{UUAFG}{24}\right) + \left(\frac{URAA}{24}\right)$$

where:

UHSA = the user's hourly sub-network apportionment for the sub-network for the hour for the gas day; and

HIW = the user's hourly interval-metered withdrawals for the sub-network for the hour calculated under clause 5.14.1; and

HBW = the user's hourly basic-meter withdrawals for the sub-network calculated under clause 5.14.3; and

UUAFG = the user's UAFG for the sub-network for the gas day notified to the data estimation entity under clause 5.10.3; and

URAA = the user's reconciliation adjustment amount for the sub-network for the gas day calculated under clause 5.11.18.

5.14.5. The data estimation entity to notify user about hourly gate point apportionment [RMR][252(1)]

Within 5.5 hours after the end of the gas day, the data estimation entity must advise, by means of an automated electronic file, the user of the user's hourly gate point apportionment.

UHSA: User's hourly sub-network apportionment

User's GBO Identifier

Gas Day

Sub-network

User's hourly (non-swing) sub-network apportionment

Notification format defined in [ICD][UHSA – User's hourly sub-network apportionment].

5.14.6. Shippers hourly gate point apportionment [RMR][252(2)]

For each shipper or swing service provider (as applicable) for each pipeline for each sub-network for each gas day, the data estimation entity must calculate the shipper's hourly gate point apportionment as follows:

$$HGA = \sum(AAP \times UHSA) + \frac{\sum SRQ}{24}$$

where:

HGA = the shipper's hourly gate point apportionment for the pipeline for the sub-network for the gas day; and

AAP = for each user related to the shipper in the sub-network, the user's actual allocation proportion for the shipper for the sub-network for the gas day calculated under clause 5.13.1; and

UHSA = for each user related to the shipper in the sub-network, the user's hourly sub-network apportionment for the sub-network for the hour for the gas day calculated under clause 5.14.4; and

∑SRQ = the sum of the swing service repayment quantity for repayment by the swing service provider (if applicable) calculated under clause 5.17.25.

5.14.7. The data estimation entity to notify shippers about hourly gate point apportionment [RMR][252(2)]

Within 5.5 hours after the end of the *gas day*, the *data estimation entity* must notify, by means of an *automated electronic file*, the *shipper* or *swing service provider* (as applicable) and the *pipeline operator* of, the *shipper's hourly gate point apportionment*.

SHGA: *Shippers hourly gate point apportionment*

Participant GBO Identifier

Gas Day

Sub-network

Pipeline

Hourly Gate Point Apportionment

> *Notification format defined in [ICD][SHGA –Hourly gate point apportionment].*

5.14.8. The data estimation entity is not required to do the hourly gate point apportionment calculations when gate point data is not received [RMR][252(3)]

If the *data estimation entity* does not receive the as-retrieved energy inflow data for a *gate point* in a *sub-network* for one or more hours in a *gas day* under clause 5.8.2, the *data estimation entity* is not required to perform the calculations set out in this section 5.14 in respect of the *gas day*

5.15. **Calculating swing service**

5.15.1. First and second gas delivered [RMR][253]

(1) On each *gas day* for each *user* for each *sub-network*, for the purposes of this section 5, the gas *injected* or *repaid* (as applicable) into the *sub-network* by or on behalf of the *user* is allocated as follows:

(a) the first gas is deemed to be the *user's swing service repayment quantities* for *repayment* on the *gas day* s calculated under clause 5.17.26 until all of the *user's swing service repayment quantities* have been *repaid;*

(b) thereafter, the gas is deemed to be the *user's reconciliation adjustment amount* for *injection* on the *gas day* calculated under clause 5.11.18 until the full *reconciliation adjustment amount* has been injected; and

(c) thereafter, the remainder of the gas is available to satisfy the *user's* withdrawals from the *sub-network* on the *gas day*.

5.15.2. Deleted [RMR][254]

No [BS] requirement. Refer to [RMR] for context only.

5.15.3. Pipeline operator to inform of special circumstances [RMR][255]

No [BS] requirement. Refer to [RMR] for context only.

5.15.4. Type of swing service [RMR][256(2)]

If any of the swing service energy amount calculated under this section 5:

(a) is a positive number, the swing service type is *loan swing service*; and

(b) is a negative number, the swing service type is *park swing service*,

for the purpose of this section 5.

5.15.5. Calculate swing service on pipeline [RMR][256(1)]

(1) For each *gas day* for each *pipeline* for each *sub-network*, *REMCo* must calculate the *swing service* for the *pipeline* as follows:

$$SS = \sum UDW(OP) - PCI(OP)$$

where:

SS = the *swing service* for the *pipeline* for *sub-network* the *gas day*;

UDW(OP) = each *user's deemed withdrawals* for the other *pipeline* for the *sub-network* for the *gas day* as calculated under clause 5.12.3.; and

PCI (OP) = the *pipeline corrected injections* for the other *pipeline* for the *sub-network* for the *gas day* as calculated under clause 5.10.5.

5.15.6. Penalty user-specific amount of swing service (PUSA)[RMR][no rule reference]

The data estimation entity deems *the penalty user-specific amount of swing service* to be zero for each *user* for each *pipeline* for each *sub-network* for each *gas day* for purposes of the calculations in this section 5.

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5.15.7. Determine adjusted swing service [RMR][no rule reference]

For each *gas day* for each *pipeline* for each *sub-network*, the *data estimation entity* must calculate the **"adjusted swing service"** for the *pipeline* for the *sub-network* for the *gas day* as follows:

$$ASS = SS - \sum PUSA$$

where:

ASS = the *adjusted swing service* for the *pipeline* for the *sub-network* for the *gas day*.

SS = the *swing service* for the *pipeline* for the *sub-network* for the *gas day* as calculated under clause 5.15.4.

PUSA = each *penalty user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day* derived under clause 5.15.6.

5.15.8. Calculate swing base amount [RMR][259]

(1) For each *gas day* for each *user* for each *pipeline* for each *sub-network*, the *data estimation entity* must calculate the *user's* **"swing base amount"** as follows:

SBA = |UPNA|

where:

SBA = the user's swing base amount for the pipeline for the sub-network for the gas day; and

UPNA = the user's pipeline nomination amount for the pipeline for the sub-network for the gas day as provided by the user under clause 5.6.8.

5.15.9. Determine swing errors [RMR][260]

For each *user* for each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the *user's* **"swing error"** (**"SE"**) as follows:

$$SE = \left| UPNA - UDW \right|$$

where:

SE = the *user's* **"swing error"** for the *pipeline* for the *sub-network* for the *gas day;*

UPNA = the *user's pipeline nomination amount* for the *pipeline* for the *sub-network* for the *gas day* as provided by user under clause 5.6.8; and

UDW = the *user's deemed withdrawals* from the *pipeline* for the *sub-network* for the *gas day* as calculated under clause 5.12.3.

5.15.10. Calculate each user's user-specific swing error [RMR][261]

(1) For each *user* for each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate *user's* user-specific *swing* error as follows:

$$USSE = \max\left[0, SE - (A \times SBA)\right]$$

where:

USSE = the *user's* user-specific *error* for the *pipeline* for the *sub-network* for the *gas day;*

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SE = the *user*'s *swing error* on the *pipeline* for the *sub-network* the *gas day* as calculated under clause 5.15.7;

A = a variable;

SBA = the *user's swing base amount* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.15.8;

(2) The value to be used for the variable "**A**" in clause 5.15.10(1) is 20%;

5.15.11. Calculate each user's total (pre-procurement) swing service [RMR][262]

(1) For each *gas day* for each *user* for each *pipeline* for each *sub-network*, the *data estimation entity* must calculate the *user's total (pre-procurement) swing service* as follows:

$$USS = \frac{UETW}{\sum UETW} \times ASS$$

where:

USS = the *user's total (pre-procurement) swing service* for the *pipeline* for the *sub-network* for the *gas day,* which is either *loan swing service* or *park swing service;*

UETW = the *user's estimated total withdrawals* for the *user* for the *sub-network* for the *gas day* as calculated under clause 5.10.15.

ΣUETW = the sum of the *user's estimated total withdrawals* for all *users* in the *sub-network* for the *gas day* as calculated under clause 5.10.15.

ASS = the *adjusted swing service* for the *pipeline* for the *sub-network* for the *gas day* under clause 5.15.7, which is either *loan swing service* or *park swing service.*

5.15.12. Calculate each user's user-specific amount of swing service (if any) [RMR][263]

For each user for each pipeline for each sub-network for each gas day, the data estimation entity must calculate the user's user-specific amount of swing service as follows:

$$USA = \left(\frac{\sum_{GP} |USSE|}{\sum_{GP} |SE|} \times USS \right) + PUSA$$

where:

USA = the user's user-specific amount of swing service for the pipeline for the sub-network for the gas day;

USSE = the user's user-specific nomination error for each pipeline for each sub-network the gas day calculated under clause 5.15.10;

SE = the user's nomination error for each pipeline for each sub-network for the gas day calculated under clause 5.15.9;

USS = the user's total (pre-procurement) swing service for the pipeline for the sub-network the gas day.

PUSA = penalty user-specific amount of swing service for the pipeline for the sub-network the gas day.

5.15.13. Calculate the total of all users' user-specific amounts of swing service [RMR][264]

For each pipeline for each sub-network for each gas day, the data estimation entity must calculate the total of all users' user-specific amounts of swing service as follows:

$$TUSA = \sum USA$$

where:

TUSA = the total of all users' user-specific amounts of swing service for the pipeline for the sub-network for the gas day;

USA = the user-specific amount of swing service for each user for the pipeline for the sub-network for the gas day as calculated under clause 5.15.12.

5.15.14. Calculate total non-user-specific pre-procurement amount of swing service [RMR][265]

For each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the total of all *user*s' non-user-specific amounts of swing service as follows:

$$TUNUSA = SS - TUSA$$

where:

TUNUSA = the total of all *users' non-user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day;*

SS = the *swing service* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.15.4;

TUSA = the total of all *users' user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day* under clause 5.15.13.

5.15.15. Calculate each user's non-user-specific pre-procurement amount [RMR][266]

(1) For each gas day, the data estimation entity must determine each user's non-user-specific amount for each pipeline, calculated as follows:

$$NUSA = USS - USA + PUSA$$

where:

NUSA = the *user's non-user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day*;

USS = the *user's total (pre-procurement) swing service* for the *pipeline* for the *sub-network* for the *gas day*;

USA = the *user's user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day*..

PUSA = *penalty user-specific amount* of *swing service (if any)* for the *pipeline* for the *sub-network* for the *gas day*.

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5.16. **Off-market swing service procurement**

5.16.1. Off market swing service procurement instruction [RMR][267]

(1) Subject to this section 5.16, for each *pipeline* for each *sub-network* for each *gas day*, a *user* may provide a "**procurement instruction"**, by means of an *automated electronic file*, to *the data estimation entity*, for the *user* to procure off-market part or all of its *swing service* for the *gas day* from one or more *swing service providers*.

OMP-USR: *User off-market service procurement*

User GBO Identifier

Gas Day

Sub-Network Id

Pipeline Id

Swing Service Provider GBO Identifier

Swing Gas Type

Priority

Swing Gas Quantity

Repaying Swing Service Provider GBO Identifier

Allocation

Notification format defined in [ICD][OMP-USR – User off-market service procurement].

(2) A *procurement instruction* must contain one or more requests to the *data estimation entity* to allocate *swing service* in accordance with arrangements made by the *user* to procure off-market (each a **"procurement request"**) for the gas day, each of which sets out:

(a) the *gas day* for the *procurement instruction* to which it applies;

(b) the *sub-network* for the *procurement instruction* to which it applies;

(c) the *pipeline* for the *procurement instruction* to which it applies;

(d) the name of the *swing service provider* from which the *user* wishes to procure off-market;

(e) the maximum quantity of *swing service* the user wishes to procure off-market under the *procurement request*, expressed in megajoules;

(f) whether the *user* wishes to procure a *park swing service* or a *loan swing service*;

(g) the priority the *user* wishes the *data estimation entity* to afford the *procurement request* as against the other *procurement requests* set out in the *user's procurement instruction*;

(h) whether, if the *data estimation entity* applies the *procurement request* under clause 5.16.9 to make the *procurement request* an "applied request", the *swing service provider* procured in the *applied request* will be repaid on the *user's* behalf by:

(i) the *swing service provider* from whom the *user* procured the *swing service*; or

(ii) one or more *swing service providers* other than the *swing service provider* named in the procurement *request* under clause 5.16.1,

in which case the *user* must specify the name of each *swing service provider* and the proportion of the *applied request* it will *repay* to that *swing service provider*, provided that a *user* may only specify the name of a *swing service provider* that is a *swing service provider* on the same *pipeline* as the *swing service provider* from whom the *user* procured the *swing service*.

(3) A *user* may lodge, withdraw or vary a *procurement instruction* it has lodged under clause 5.17.4(1) for a *pipeline* for a *sub-network* for a *type of service* that applies to the *gas day* if the request is received by *the data estimation entity* no earlier then one year before, and no later then 30 minutes before, the start of the *gas day*.

(4) By providing a *procurement instruction* under this clause 5.16.1, a *user* warrants and represents to *REMCo* that:

(a) each of the *swing service providers* set out in the *procurement instruction* under clause 5.16.1 agrees to, and has sufficient contractual entitlements to, provide *swing service* to the *user* in accordance with the *procurement request* listed in the *procurement instruction* on the *gas day* to which the *procurement instruction* applies;

(b) each of the *swing service providers* set out in the *procurement instruction* under clause 5.16.1 agrees to, and has sufficient contractual entitlements to, *repay* the appropriate *swing service repayment quantity* on the *user* behalf two days after the *gas* day to which to which the *procurement instruction* applies.

(5) For each *user* for each *pipeline* for each *gas day*, where a *user* provides a *procurement instruction* to *the data estimation entity*, the *user* must endeavour to procure each *swing service provider* listed in a procurement request to provide a **"procurement confirmation"** to the *data estimation entity* under the clause 5.16.2.

5.16.2. If procurement instruction is not valid [RMR][267]

Upon receipt of *procurement instruction* under clause 5.16.1, which is not valid, *the data estimation entity* must *immediately:*

(a) reject the procurement instruction; and

(b) *acknowledge* the person that lodged the *procurement instruction*, including the rejection reason.

5.16.3. The data estimation entity accepts valid procurement instruction [RMR][267]

Upon receipt of valid *procurement instruction* for a *pipeline* and a *sub-network* for a *loan* or *park swing service* for a *gas day* under clause 5.16.1, *the data estimation* must *forthwith:*

(a) accept the procurement instruction; and

(b) *acknowledge* the person that lodged the *procurement instruction,* to indicate that the *procurement* instruction has been accepted

5.16.4. Swing service provider notifies the data estimation entity about off-market swing service procurement confirmation [RMR][268]

(1) Subject to this section 5.16, for each *pipeline* for each *sub-network* for each *gas day*, a *swing service provider* may provide a "**procurement confirmation"**, by means of an *automated electronic file,* to *the data estimation entity*, which is a statement by the *swing service provider* that it agrees to provide *swing service* to the *user* for the *gas day* in accordance with the corresponding *user's procurement request.*

OMP-SSP: *Swing Service Provider off-market service procurement*

Swing Service Provider GBO Identifier

Gas Day

User GBO Identifier

Sub-Network

Pipeline

Swing Gas Type

Swing Gas Quantity

> *Notification format defined in [ICD][OMP-SSP: Swing Service Provider off-market service procurement].*

(2) A *procurement confirmation* must set out the following information:

(a) the *swing service provider GBO Identification* to which it applies;

(b) the *gas day* to which it applies;

(c) the *sub-network* to which it applies;

(d) the *pipeline* to which it applies;

(e) the *user GBO Identification* to which it applies;

(f) the maximum quantity of *swing service* the *swing service provider* is willing to provide to the *user*, expressed in megajoules, which must be equal to or more than the quantity set out in the corresponding *user's procurement requests*;

(g) whether the *swing service provider* will provide a *park swing service* or a *loan swing service*.

(3) A *swing service provider* may lodge, withdraw or vary a *procurement confirmation* it has lodged under clause 5.16.4 for a *pipeline* for a *sub-network* for a *type of service* that applies to the *gas day* if the request is received by *the data estimation entity* no earlier then one year before, and no later then 30 minutes before, the start of the *gas day.*

(4) By providing a *procurement confirmation* under section 5.16, a *swing service provider* warrants and represents to *REMCo* that the *swing service provider* has sufficient contractual entitlements to provide *swing service* to the *user* in accordance with the corresponding *user's procurement request* on the *gas day* to which the *user's procurement request* applies.

5.16.5. If procurement confirmation is not valid [RMR][268]

Upon receipt of *procurement confirmation* under clause 5.16.4, which is not valid, *the data estimation entity* must *immediately:*

(a) reject the *procurement confirmation*; and

(b) *acknowledge* the person that lodged the *procurement confirmation*, including the rejection reason.

5.16.6. The data estimation entity accepts valid procurement confirmation [RMR][268]

Upon receipt of valid *procurement confirmation* for a *pipeline* and a *sub-network* for a *loan* or *park swing service* for a *gas day* under clause 5.16.4, the *data estimation emtity* must forthwith:

(a) accept the *procurement confirmation*; and

(b) *acknowledge* the person that lodged the *procurement confirmation,* to indicate that the *procurement confirmation* has been accepted

5.16.7. *The data estimation entity* to assess off-market *swing service* procurement [RMR][269(1)]

(1) For each *pipeline* for each *sub-network* for each *gas day*:

(a) first, by no later than 16 hours before the start of the *gas day* ("**first check**"); and

(b) then again, after 30 minutes before the start of the *gas day* ("**final check**"),

The *data estimation entity* must assess each *procurement request* in each *user's procurement instruction* and each *procurement confirmation* for the *gas day* to determine whether the *data estimation entity* has received, as appropriate, a corresponding *procurement confirmation* from a *swing service provider* or corresponding *procurement request* from a *user*.

(2) Each *procurement request* in a *user's procurement instruction* for which *the data estimation entity* identifies a corresponding *procurement confirmation* from a *swing service provider* at the time of the final check is a "**validated procurement request**", and may be applied by *the data estimation entity* if appropriate under clause 5.16.9.

5.16.8. *The data estimation entity* to provide off-market *swing service* procurement status report [RMR][269(2)]

(1) By no later than 16 hours before the start of the gas day, *the data estimation entity* must provide, by means of *an automated electronic file*, a "**status report**":

(a) to each *user*, setting out each *procurement request* in the *user's procurement instruction* for the *gas day* for which the *data estimation entity* has received a corresponding *procurement confirmation* from a *swing service provider* at the time of the first check; and

(b) to each *swing service provider*, setting out each of the *swing service provider's procurement confirmations* for the *gas day* for which the *data estimation entity* has received a corresponding *procurement request* from a *user* at the time of the first check.

OMP-STATUS: *Off-market service procurement instruction status*

Gas Day

User GBO Identifier

Swing Service Provider GBO Identifier

Sub-Network

Pipeline

Swing Gas Type

Swing Gas Quantity

Notification format defined in [ICD][OMP-STATUS: Off-market service procurement instruction Status].

5.16.9. The data estimation entity to calculate off-market swing service procurement [RMR][270]

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For each *user* for each *pipeline* for each *sub-network* for each *gas day*, *the data estimation entity* must apply ("**applied request**") the *user's validated procurement requests* in the priority order specified by the *user*, until all of the *user's swing service* is exhausted:

(1) first, against the *user's non-user-specific amount* of *swing service* calculated under clause 5.15.15;

and, if the user's validated procurement requests exhaust the user's non-user-specific amount of swing service:

(2) then, against the *user's user-specific amount* of *swing service* calculated under clause 5.15.12.

5.16.10. The data estimation entity to calculate trade repayment quantity [RMR][270]

For each *applied request the data estimation entity* must calculate "**trade repayment quantities"** by allocating the appropriate proportion of the amount of the *applied request* to the *swing service providers* in accordance with the allocation as specified in the appropriate *procurement request* under clause 5.16.1(2)(h) and 5.16.1.

5.16.11. The data estimation entity to calculate surplus swing service [RMR][271]

For each *procurement confirmation*, *the data estimation entity* must determine the amount of *swing service* set out in the *procurement confirmation* which was not applied against a *user's swing service* under clause 5.16.9 (**"surplus"**).

5.16.12. Adjust non-user-specific amount for outcomes of off-market swing service procurement [RMR][272]

For each *user* for each *pipeline* for each *sub-network*, the *data estimation entity* must determine the *user*'s **"adjusted non-user-specific amount"** of *swing service* as follows:

$$ANUSA = NUSA - NUSA(POM)$$

where:

ANUSA = the *adjusted non-user-specific amount* of *swing service*;

NUSA = the *user's non-user-specific (pre-procurement) amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.15.15;

NUSA(POM) = the amount of *non-user-specific swing service* that the *user* has procured off-market for the *pipeline* for the *sub-network* for the *gas day* determined under clause 5.16.9.

5.16.13. Calculate users' total adjusted non-user-specific amounts of swing service [RMR][273]

For each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must calculate the total of all *user*s' adjusted non-user-specific amounts of *swing service* as follows:

$$TANUSA = \sum ANUSA$$

where:

TANUSA = the total of all *user*s' *adjusted non-user-specific amounts* for the *pipeline* for the *sub-network* for the *gas day*;

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$ANUSA$ = each *user*'s *adjusted non-user-specific amount of swing service* for the *pipeline for* the *sub-network* for the *gas day*.

5.16.14. Adjust user-specific amounts for outcomes of off-market swing service procurement [RMR][274]

For each *user* for each *pipeline* for each *sub-network* for each *gas day, the data estimation entity* must determine the *user's* **"adjusted user-specific amount"** of *swing service* as follows:

$$AUSA = USA - USA(POM)$$

where:

$AUSA$ = the *user's adjusted user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day;*

USA = the *user's user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.15.12;

$USA(POM)$ = the *user-specific amount* of *swing service* that the *user* has procured off-market for the *pipeline* for the *sub-network* for the *gas day* determined under clause 5.16.5.

5.16.15. Calculate users' total adjusted user-specific amounts of swing service [RMR][275]

For each pipeline for each sub-network for each gas day, the data estimation entity must calculate the total of all users' adjusted user-specific amounts of swing service as follows:

$$TAUSA = \sum AUSA$$

where:

TAUSA = the total of all users' adjusted user-specific amounts of swing service for the pipeline for the sub-network for the gas day;

AUSA = each user's adjusted user-specific amount of swing service for the pipeline for the sub-network for the gas day calculated under clause 5.16.14.

5.16.16. Calculate total swing service to be procured through bid-stack [RMR][276]

For each *pipeline* for *each sub-network* for each *gas day*, the *data estimation entity* must calculate the total amount of *swing service* to be procured through the applicable *bid stack* as follows:

$$TSS(BS) = TANUSA + TAUSA$$

where:

$TSS(BS)$ = the total amount of *swing service* to be procured through the applicable *bid stack* for the *pipeline* for the *sub-network* for the *gas day*;

$TANUSA$ = the total of all *users' adjusted non-user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day*;

$TAUSA$ = the total of all *users' adjusted user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day*.

5.17. **Allocating swing service**

5.17.1. Users appoints REMCo as agent for entering into SSPUDs [RMR][278]

No [BS] requirement. Refer to [RMR] for context only.

5.17.2. Swing service providers [RMR][279]

No [BS] requirement. Refer to [RMR] for context only.

5.17.3. Swing service provider of last resort [RMR][280]

No [BS] requirement. Refer to [RMR] for context only.

5.17.4. Swing Service Bids [RMR][281]

(1) A *swing service provider* who is party to a SSPUD may lodge, via an *automated electronic file*, a *bid book* with *the data estimation entity* for a *pipeline* for a *sub-network* for a *gas day*.

BID-SSP: *Swing Service Bids*

Swing Service Provider GBO Identifier

Gas Day

Sub-Network

Pipeline

Swing Gas Type

Swing Gas Quantity

Bid Price

　　Notification format defined in [ICD][BID-SSP: Swing Service Bids].

(2) A *bid book* must contain one or more *bids* for the provision of *swing service* for the *swing service provider* for the *gas day* for the *pipeline* for the *sub-network* for the *loan* or *park swing service,* to which the *bid book* applies.

(3) Each *bid* must set out the following information:

(a) the name of the *swing service provider* to which it applies; and

(b) the *gas day* for the *bid book* to which it applies; and

(c) the *sub-network* for the *bid book* to which it applies; and

(d) the *pipeline* for the *bid book* to which it applies; and

(e) whether the *bid book* to which it applies is a *park swing service* or a *loan swing service*; and

(f) the maximum amount of *swing service* in the bid that must be expressed as a fixed amount; and

(g) the price for the provision of the bid in cents, up to three decimal places, per megajoule.

(4) A prospective *swing service provider* may lodge, withdraw or vary a *bid book* it has lodged under clause 5.17.4(1) for a *pipeline* for a *sub-network* for a *type of service* which

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applies to the *gas day* if the request is received by *the data estimation entity* at no earlier than one year before, and no later than 30 minutes before the start of the *gas day,* to which the *bid book* applies,.

(5) A *swing service provider* that lodges a *bid book* with *the data estimation entity* which applies to a *gas day* under this clause 5.17.4 consents to *REMCo* making available the *bids* in the *bid book* after the *gas day* as part of the *bid stack*, as set out in clause 5.17.13.

5.17.5. The data estimation entity to validate bid book [RMR][282]

(1) Upon receipt of a *bid book* under clause 5.17.4(1), *the data estimation entity* must *immediately* validate the *bid book* that the *bid book* is valid*;* a *bid book* is valid if:

(a) the *gas day,* to which the *bid book* applies, is a correct date and specified in the correct format; and

(b) the *swing service provider,* to which the *bid book* applies, is recorder in the *data estimation entity* as a valid *swing service provide;* and

(c) the *participant* lodging the *bid book* is identical as the *swing service provider,* to which the *bid book* applies*;* and

(d) the *pipeline,* to which the *bid book* applies, is recorder in the *data estimation entity* as a valid *pipeline;* and;

(e) the *sub-network,* to which the *bid book* applies, is recorder in the *data estimation entity* as a valid *sub-network*; and

(f) the type of *swing service,* to which the *bid book* applies, is a *park swing service* or a *loan swing service*; and

(g) the *swing service provider,* to which the *bid book* applies, is recorder in the *data estimation entity* as a valid *swing service provide* for the *pipeline*, to which the *bid book* applies; and

(h) the *swing service provider,* to which the *bid book* applies, is recorder in the *shippers register* as a valid *swing service provide* for the *sub-network,* the *pipeline* and the *gas day*, to which the *bid book* applies; and

(i) the *bid book* was received no earlier than one year before, and no later than 30 minutes before the start of the *gas day*, to which the *bid book* applies, as specified by the clause 5.17.4(4); and

(j) each *bid,* to which the *bid book* applies, is valid under clause 5.17.5(2).

(2) A *bid* in a *bid book* is valid if:

(a) the *gas day,* to which the *bid* applies, is a correct date and specified in the correct format; and

(b) the *swing service provider,* to which the *bid* applies, is recorder in the *data estimation entity* as a valid *swing service provide;* and

(c) the *participant* lodging the *bid* is same as the *swing service provider,* to which the *bid* applies*;* and

(d) the *pipeline,* to which the *bid* applies, is recorder in the *data estimation entity* as a valid *pipeline;* and;

(e) the *sub-network,* to which the *bid* applies, is recorder in the *data estimation entity* as a valid *sub-netowork*; and

(f) the type of *swing service,* to which the *bid* applies, is a *park swing service* or a *loan swing service*; and

(g) the maximum amount of the *swing service* provided in the *bid* is expressed as a fixed energy amount in whole megajoules; and

(h) the price for the provision of the *swing service* is in cents, up to three decimal places, per megajoule.

5.17.6. If a bid book is not valid [RMR][283]

Upon receipt of a *bid book* under clause 5.17.4(1), which is not valid, *the data estimation entity* must *immediately:*

(a) reject the *bid book*; and

(b) *acknowledge* the person that lodged the *bid book*, including the rejection reason.

5.17.7. If bid book is valid the data estimation entity accepts into bid stack [RMR][284]

Upon receipt of a valid *bid book* for a *pipeline* and a *sub-network* for a *loan* or *park swing service* for a *gas day* under clause 5.17.4(1), *the data estimation* must *forthwith:*

(a) remove from the bid stack for the sub-network for the pipeline for the loan or park swing service for the gas day each bid currently in the bid stack from the swing service provider;

(b) accept each *bid* from the *bid book* into the appropriate *bid stack* for the *pipeline* for the *sub-network* for the *loan* or *park swing service for* the *gas day* under clause 5.17.8.

(c) *acknowledge* the person that lodged the *bid book,* to indicate that the *bid book* has been accepted

5.17.8. Swing service providers to notify the data estimation entity about off-market procurement surplus instruction [RMR][281]

(1) A *swing service provider* who is a party to a *SSPUD* may lodge, via an *automated electronic file*, a *surplus instruction* with *the data estimation entity* for a *pipeline* for a *sub-network* for a *gas day*.

OMP-SURPLUS: *Swing Service Provider Off-Market Surplus Instruction*

Swing Service Provider GBO Identifier

Gas Day

Sub-Network

Pipeline

Swing Gas Type

Priority

Allocation

Bid Price

Notification format defined in [ICD][OMP-SURPLUS: Swing Service Provider surplus instruction].

(2) A *surplus instruction* must contain one or more *surplus requests* that allocate the *surplus* of the *swing service* for a *pipeline* for a *sub-network* for a *swing service provider*

for *park* or *loan swing service* for a *gas day* calculated under the clause 5.16.10 to *bids* to the *bid stack* for the *pipeline* for the *sub-network* for the *gas day* for the *park* or *loan swing service,* to which the *surplus instruction* applies.

(3) Each *surplus request* must set out the following information:

(a) the name of the *swing service provider* to which it applies; and

(b) the *gas day* for the *surplus request* to which it applies; and

(c) the *sub-network* for the *surplus request* to which it applies; and

(d) the *pipeline* for the *surplus request* to which it applies; and

(e) whether the *surplus request* to which it applies is a *park swing service* or a *loan swing service*; and

(f) the priority of the *surplus request* in the applicable *surplus instruction;* and

(g) the allocation of the *swing service providers* surplus into a bid; and

(h) the price for the provision of the *bid* as a result of applying the *surplus request that is expressed* in cents, up to three decimal places, per megajoule.

(4) A prospective *swing service provider* may lodge, withdraw or vary a *surplus instruction* it has lodged under clause 5.17.8 for a *pipeline* for a *sub-network* for a *type of service* which applies to the *gas day* if the request is received by *the data estimation entity* no earlier then one year before, and no later then 30 minutes before, the start of the *gas day,* to which the *surplus instruction* applies,.

(5) A *swing service provider* that lodges a *surplus instruction* with *the data estimation entity* which applies to a *gas day* under this clause 5.17.8 consents to *REMCo* making available the resulted *bids* after the *gas day* as part of the *bid stack*, as set out in clause 5.17.13.

5.17.9. The data estimation entity to validate surplus instruction [RMR][282]

(1) Upon receipt of a *surplus instruction* under clause 5.17.8, *the data estimation entity* must *immediately* validate the *surplus instruction* that the *surplus instruction* is valid*; a surplus instruction* is valid if:

(a) the *gas day,* to which the *surplus instruction* applies, is a correct date and specified in the correct format; and

(b) the *swing service provider,* to which the *surplus instruction* applies, is recorder in the *data estimation entity* as a valid *swing service provide;* and

(c) the *participant* lodging the *surplus instruction* is identical as the *swing service provider,* to which the *surplus instruction* applies*;* and

(d) the *pipeline,* to which the *surplus instruction* applies, is recorder in the *data estimation entity* as a valid *pipeline;* and;

(e) the *sub-network,* to which the *surplus instruction* applies, is recorder in the *data estimation entity* as a valid *sub-network*; and

(f) the type of *swing service,* to which the *surplus instruction* applies, is a *park swing service* or a *loan swing service*; and

(g) the *swing service provider,* to which the *surplus instruction* applies, is recorder in the *data estimation entity* as a valid *swing service provide* for the *pipeline*, to which the *surplus instruction* applies; and

(h) the *swing service provider,* to which the *surplus instruction* applies, is recorder in the *shippers register* as a valid *swing service provide* for the *sub-network,* the *pipeline* and the *gas day*, to which the *surplus instruction* applies; and

(i) the *surplus instruction* was received no earlier than one year before, and no later than 30 minutes before the start of the *gas day*, to which the *surplus instruction* applies, as specified by the clause 5.17.4(4); and

(j) each *surplus request,* to which the *surplus instruction* applies, is valid under clause 5.17.9(2).

(k) the total percentage allocation of all *surplus requests,* to which the *surplus instruction* applies, is no more than 100 percent.

 (2) A *surplus request* in a *surplus instruction* is valid if:

(a) the *gas day,* to which the *surplus request* applies, is a correct date and specified in the correct format; and

(b) the *swing service provider,* to which the *surplus request* applies, is recorder in the *data estimation entity* as a valid *swing service provide;* and

(c) the *participant* lodging the *surplus request* is same as the *swing service provider,* to which the *surplus request* applies*;* and

(d) the *pipeline,* to which the *surplus request* applies, is recorder in the *data estimation entity* as a valid *pipeline;* and;

(e) the *sub-network,* to which the *surplus request* applies, is recorder in the *data estimation entity* as a valid *sub-netowork*; and

(f) the type of *swing service,* to which the *surplus request* applies, is a *park swing service* or a *loan swing service*; and

(g) the priority of the *surplus request* is expressed as whole number; and

(h) the allocation type of the *surplus request* is expressed as percentage; and

(i) the allocated amount in the *surplus request* is expressed in whole percents; and

(j) the price for the provision of the *swing service* is in cents, up to three decimal places, per megajoule.

5.17.10. If surplus instruction is not valid [RMR][283]

Upon receipt of *surplus instruction* under clause 5.17.8, which is not valid, *the data estimation entity* must *immediately:*

(a) reject the *surplus instruction*; and

(b) *acknowledge* the person that lodged the surplus *instruction*, including the rejection reason.

5.17.11. The data estimation entity accepts valid surplus instruction [RMR][284]

Upon receipt of valid *surplus instruction* for a *pipeline* and a *sub-network* for a *loan* or *park swing service* for a *gas day* under clause 5.17.8, *the data estimation* must *forthwith:*

(a) accept the *surplus instruction*; and

(b) *acknowledge* the person that lodged the *surplus instruction,* to indicate that the *surplus instruction* has been accepted

5.17.12. The data estimation entity to apply surplus instruction [RMR][281]

For each *pipeline* for each *sub-network* for each *gas day* the *data estimation entity* must allocate the *swing service surplus* calculated under clause 5.16.10 to one or more *bids* as specified in the *surplus instruction* provided by the *swing service provider* under clause 5.17.8. The *data estimation entity* must accept each such generated *bid* into the appropriate *bid stack* for the *pipeline* for the *sub-network* for the *loan* or *park swing service for* the *gas day* under clause 5.17.8.

5.17.13. Bid Stacks [RMR][285]

(1) For each *pipeline* for each *sub-network* for each *gas day*, *the data estimation entity* must create and administer two **"bid stacks"** one for each of park *swing service* and loan *swing service*, for all *bids* accepted under clause 5.17.7 as follows (subject to clause 5.17.13(2)):

(a) *The data estimation entity* must arrange the *bids* in each *bid stack* in order from lowest price (at the bottom) to highest price (at the top);

(b) *The data estimation entity* must add new *bids* to the *bid stack* in price order, regardless of when they are received;

(c) if two *bids* in the same *bid stack* specify the same price, *the data estimation entity* must place the *bid* which specifies the larger volume in the *bid stack* beneath the *bid* which specifies the smaller volume; and

(d) if two *bids* or more *bids* in the same *bid stack* specify the same price and the same volume, *the data estimation entity* must place the *bids at the same position in the* bid stack.

(2) For each *pipeline* for each *sub-network* for each *gas day* for which there is a *SSPOLR* for *park swing service* or *loan swing service*, as the case may be, the *SSPOLR* is deemed to have lodged a standing bid (**"standing SSPOLR bid"**) into the *bid stack*:

(a) for the supply of *park swing* service or *loan swing service*, as the case may be; and

(b) in an amount which (subject to the terms of the *SSPOLRUD*) is unlimited; and

(c) at the *SSPOLR price* specified in the *SSPOLRUDUD*.

(3) Whenever a *SSPOLR* has a *standing SSPOLR bid* for a *pipeline* for a *sub-network* for a *gas day*, the *standing SSPOLR bid* must be the top (i.e. last to be called upon) *bid* in the *bid stack* regardless of the *SSPOLR price*.

5.17.14. Determine marginal clearing price for total amount of swing service to be procured through applicable bid-stack [RMR][287]

(1) For each *pipeline* for each *sub-network* for each *gas* day, the *data estimation entity* must determine in accordance with clause 5.17.14(2), the *marginal clearing price* for the total amount of *swing service* to be procured through the applicable *bid stack* (**"MCP(TSS(BS))"**), which is expressed in cents, up to three decimal places, per megajoule.

(2) The *MCP(TSS(BS)* is the price on the *bid stack* which intersects with the total amount of *swing service* to be procured through the bid stack for the sub-network for the *pipeline* for the *gas day* (**"TSS(BS)"**) calculated under clause 5.16.16, however the *data estimation entity* may only use the standing *SSPOLR bid* to determine the *MCP(TSS(BS))* where all the other bids in the *bid stack* are exhausted because insufficient *swing service* was bid into the *bid stack* to meet the *TSS(BS)*, and then, it may only be used to the extent that such a shortfall exists.

(3) If, in determining the *MCP(TSS(BS))* under this clause 5.17.14 the *data estimation entity* is required to use the *standing SSPOLR bid,* then:

(a) If the price specified for the *bid* immediately beneath the *standing SSPOLR bid* is higher then the *SSPOL price* – the price specified for that *bid* applies to the *standing SSPOLR bid* instead of the *SSPOL price;* and

(b) If the price specified for the *bid* immediately beneath the *standing SSPOL bid* is lower than the *SSPOLR price* - the SSPOLR *price* applies to the *standing SSPOLR bid.*

(4) For the purposes of clause 5.17.23:

(a) Subject to clause 5.17.14(4)(b), each *bid* in the *bid stack* that is used in setting the *MCP(TSS(BS))* is an "**AUSA bid";** and

(b) If the quantity of *TSS(BS)* is less then the aggregate amount of *swing service* in all the *bids* in the *bid stack* up to and including the *bid* or *bids* at which the *MCP(TSS(BS))* is struck under clause 5.17.14(2), then:

> (i) if there is only one such *bid,* the *bid* is to be divided into two parts with:
>
>> A. the first part being for the marginal quantity of *TSS(BS)* and being at the *MCP(TSS(BS))* (an "**AUSA bid**"); and
>>
>> B. the second part being for the remaining quantity and being disregarded,
>
> (ii) if there is more then one such *bid* because of the operation of clause 5.17.13(1)(d), each such *bid* is to be divided into two parts, with:
>
>> A. each first part being for an equal proportion of the entire marginal quantity of *TSS(BS)* and being at the *MCP(TSS(BS))* (each an "**AUSA bid**"); and
>>
>> B. each second part being for an equal proportion of the entire remaining quantity and being disregarded.

5.17.15. Determine marginal clearing price for adjusted non-user-specific amounts of swing service [RMR][288]

(1) For each *pipeline* for each *sub-network* for each *gas* day, the *data estimation entity* must determine in accordance with clause 5.17.15(2), the *marginal clearing price* for the total of all *adjusted non-user-specific amounts* of *swing service* (**"MCP(ANUSA)"**), which is expressed in cents, up to three decimal places, per megajoule.

(2) The *MCP(ANUSA)* is the price on either the *loan swing service bid stack* or *park swing service bid stack,* as applicable, which intersects with the total of all *users' adjusted non-user-specific amounts* for the sub-network for the *pipeline* for the *gas day* (**"TANUSA"**) calculated under clause 5.16.15, however the *data estimation entity* may only use the standing *SSPOLR bid* to determine the *MCP(ANUSA),* where all the other bids in the *bid stack* are exhausted because insufficient *swing service* was bid into the *bid stack* to meet the *TANUS*, and then, it may only be used to the extent that such a shortfall exists.

(3) If, in determining the *MCP(ANUSA)* under this clause 5.17.15 the *data estimation entity* is required to use the *standing SSPOLR bid,* then:

(a) If the price specified for the *bid* immediately beneath the *standing SSPOLR bid* is higher then the *SSPOL price* – the price specified for that *bid* applies to the *standing SSPOLR bid* instead of the *SSPOL price;* and

(b) If the price specified for the *bid* immediately beneath the *standing SSPOL bid* is lower than the *SSPOLR price* - the SSPOLR price applies to the *standing SSPOLR bid*.

 (4) For the purposes of clause 5.17.23:

(a) Subject to clause 5.17.15(4)(b), each *bid* in the *bid stack* that is used in setting the *MCP(ANUSA)* is an "**ANUSA bid";** and

(b) If the quantity of *TSS(BS)* is less then the aggregate amount of *swing service* in all the *bids* in the *bid stack* up to and including the *bid* or *bids* at which the *MCP(ANUSA)* is struck under clause 5.17.15(2), then:

> (i) if there is only one such *bid,* the *bid* is to be divided into two parts with:

>> A. the first part being for the marginal quantity of *TANUSA* and being at the *MCP(TANUSA)* (an "**ANUSA bid**"); and

>> B. the second part being for the remaining quantity and being at the *MCP(TSS(BS)) (an "AUSA bid"),*

> (ii) if there is more then one such *bid* because of the operation of clause 5.17.13(1)(d), each such *bid* is to be divided into two parts, with:

>> A. each first part being for an equal proportion of the entire marginal quantity of *TANUSA* and being at the *MCP(TANUSA)* (each an "**ANUSA bid**"); and

>> B. each second part being for an equal proportion of the entire remaining quantity and being at the *MCP(TSS(BS))* (each an **"AUSA bid"**).

5.17.16. TSS(BS) bids [RMR][288A]

A *bid* that is an *AUSA bid* or an *ANUSA bid* under clause 5.17.14 or clause 5.17.15 is also a **"TSS(BS) bid"** for the purpose of these rules..

5.17.17. Calculate total swing service cost (all users) [RMR][289]

For each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must determine the "**total swing service cost"** across all *users* as follows:

$$TSSC = MCP(TSS(BS)) \times TSS(BS)$$

where:

TSSC = the *total swing service cost* across all *users* for the *pipeline* for the *sub-network* for the *gas day*;

MCP(TSS(BS)) = the *marginal clearing price* for the total amount of *swing service* to be procured through the applicable *bid stack* for the *gas day determined under clause* 5.17.14; and

TSS(BS) = the total amount of *swing service* to be procured through the applicable *bid stack* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.16.16.

5.17.18. Calculate total non-user-specific swing service cost (all users) [RMR][290]

For each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must determine the "**total non-user-specific swing service cost"** across all *users* as follows:

CGI

$$TNUSAC = MCP(ANUSA) \times TANUSA$$

where:

TNUSAC = the *total non-user-specific swing service cost* across all *users* for the *pipeline* for the *sub-network* for the *gas day*.

MCP(ANUSA) = the *marginal clearing price* for the total amount of all *adjusted non-user-specific amounts* of *swing service* to be procured through the applicable *bid stack* for the *pipeline* for the *sub-network* for the *gas day* determined under clause 5.17.15; and

TANUSA = the total of all *users' adjusted non-user-specific amounts* of *swing service* for the *sub-network* for the *pipeline* for the *gas day* calculated under clause 5.16.13.

5.17.19. Calculate total user-specific swing service cost (all users) [RMR][291]

For each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must determine the "**total user-specific swing service cost**" across all *users* as follows:

$$TUSAC = TSSC - TNUSAC$$

where:

TUSAC = the *total user-specific swing service cost* across all *users* for the *pipeline* for the *sub-network* for the *gas day*;

TSSC = the *total swing service cost* across all *users* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.17.17; and

TNUSAC = the *total non-user-specific swing service cost* across all *users* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.17.18.

5.17.20. Calculate user-specific swing service cost [RMR][292]

For each user for each pipeline for each sub-network, the data estimation entity must determine the user's user-specific swing service cost as follows:

$$USAC = TUSAC \times \frac{AUSA}{TAUSA}$$

where:

USAC = the user's user-specific swing service cost for the pipeline for the sub-network for the gas day;

TUSAC = the total user-specific swing service cost across all users for the pipeline for the sub-network for the gas day calculated under clause 5.17.19;

AUSA = the user's adjusted user-specific amount of swing service for the pipeline for the sub-network for the gas day calculated under clause 5.16.14;

TAUSA = the total of all users' adjusted user-specific amounts of swing service for the pipeline for the sub-network for the gas day calculated under clause 5.16.15.

5.17.21. Calculate non-user-specific swing service cost [RMR][293]

For each user for each pipeline for each sub-network, the data estimation entity must determine the user's non-user-specific swing service cost as follows:

$$NUSAC = TNUSAC \times \frac{ANUSA}{TANUSA}$$

where:

NUSAC = the user's non-user-specific swing service cost for the pipeline for the sub-network for the gas day.

TNUSAC = the total non-user-specific swing service cost across all users for the pipeline for the sub-network for the gas day calculated under clause 5.17.18;

ANUSA = the user's adjusted non-user-specific amount of swing service for the pipeline for the sub-network for the gas day calculated under clause 5.16.12; and

TANUSA = the total of all users' adjusted non-user-specific amounts of swing service for the pipeline for the sub-network for the gas day calculated under clause 5.16.13.

5.17.22. Calculate total swing service cost [RMR][294]

For each user for each pipeline for each sub-network, the data estimation entity must determine the user's total swing service cost as follows:

$$UC = USAC + NUSAC$$

where:

UC = the user's total swing service cost for the pipeline for the sub-network for the gas day;

USAC = the user's user-specific swing service cost for the pipeline for the sub-network for the gas day calculated under clause 5.17.19; and

NUSAC = the user's non-user-specific swing service cost for the pipeline for the sub-network for the gas day calculated under clause 5.17.18.

5.17.23. Calculate swing service fee [RMR][295(1)]

For each *user* for each *swing service provider* for each *pipeline* for each *sub-network* for each *gas day,* the *data estimation entity* must calculate the **"swing service fee" ("FSS")** as follows:

$$FSS = \frac{\sum_{SSP} A(TSS(BS)bids)}{TSS(BS)} \times UC$$

where:

FSS = the *swing service fee* to be paid by the *user* to the *swing service provider* for the *pipeline* for the *sub-network* for the *gas day*;

A(TSS(BS) bids) = the amount of *swing service* in each of the *swing service provider's TSS(BS) bids* under clause 5.17.16;

TSS(B) = the total amount of *swing service* that is procured through the *bid stack* for the *pipeline* for the *sub-network* for the *gas day* under clause 5.16.16; and

UC = the *user's total swing service cost* for the *pipeline* for the *sub-network* for the *gas day calculated* under clause 5.17.22.

5.17.24. Calculate swing service amount [RMR][295(2)]

For each *user* for each *swing service provider* for each *pipeline* for each *sub-network* for each *gas day,* the *data estimation entity* must calculate the **"swing service amount" ("SSA")** as follows:

$$SSA = \left(\frac{\sum\limits_{SSP} A(ANUSA\ bids)}{TANUSA} \times ANUSA \right) + \left(\frac{\sum\limits_{SSP} A(AUSA\ bids)}{TAUSA} \times AUSA \right)$$

where:

SSA = the *swing service amount* that the *swing service provider* provided to the *user* for the *pipeline* for the *sub-network* for the *gas day,* in megajoules;

A(ANUSA bids) = the amount of *swing service* in each of the *swing service provider's ANUSA bids* under clause 5.17.14;

TANUSA = the total of all *user's adjusted non-user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day,* calculated under clause 5.16.13;

ANUSA = the *user's adjusted non-user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day,* calculated under clause 5.16.12;

A(AUSA bids) = the amount of *swing service* in each of the *swing service provider's AUSA bids* under clause 5.17.15 and 5.17.14;

TAUSA = the total of all *user's adjusted user-specific amounts* of *swing service* for the *pipeline* for the *sub-network* for the *gas day,* calculated under clause 5.16.15;

AUSA = the *user's adjusted user-specific amount* of *swing service* for the *pipeline* for the *sub-network* for the *gas day,* calculated under clause 5.16.14;

5.17.25. Calculation of swing service repayment quantities [RMR][299]

For each *user* for each *pipeline* for each *sub-network* for each *gas day,* the *data estimation entity* must determine the "**swing service repayment quantity**" ("**SRQ**") for each *swing service provider* as follows:

$$SRQ = SSA + \sum TRQ$$

where:

SRQ = the *swing service repayment quantity* arising from the *gas day D for the swing service provider,* the *user* for the *pipeline* for the *sub-network,* in megajoules;

SSA = the *swing service amount* that the *swing service provider* provided to the *user* for the *pipeline* for the *sub-network* for the *gas day,* in megajoules calculated under clause 5.17.24;

∑TRQ = the sum of the *swing service provider's trade repayment quantity* for the *pipeline* for the *sub-network* for the *gas day* arising from off-market trades for the *user* and calculated under clause 5.16.10;

5.17.26. User must pay swing service provider [RMR][296A]

No [BS] requirement. Refer to [RMR] for context only.

5.17.27. Timing of repayment of swing service repayment amounts [RMR][298]

No [BS] requirement. Refer to [RMR] for context only.

5.17.28. User's Swing Service Repayment Amount [RMR][no reference]

For each *user* for each *sub-network* for each *gas day D*, the *data estimation entity* must calculate, the *user's swing service repayment amount* (**"SSRA"**) arising from *gas day D* as follows:

$$SSRA = \sum SRQ$$

where:

SSRA = the *user's swing service repayment amount* for the *sub-network* arising from *gas day D*;

SRQ = the *user's swing service repayment quantity* for the *sub-network* arising from *gas day D*.

5.17.29. Notification of swing service data [RMR][286, 296,300]

For each gas day the *data estimation entity* must, within 5 hours after the end of the *gas day*, notify participants about the swing service calculation results as follows:

(1) For each allocation under clause 5.17.23 give a *contract note, via an automated electronic file,* to the *swing service provider* and the *user* between whom the allocation is made, specifying:

(a) the *gas day* to which the allocation relates;

(b) the name of the *swing service provider* to which the allocation relates;

(c) the name of the *user* to which the allocation relates;

(d) the *pipeline* to which the allocation relates;

(e) the *sub-network* to which the allocation relates;

(f) whether the to which the allocation relates to *park swing service* or *loan swing service*;

(g) the *swing service amount* in megajoules calculated under clause 5.17.24;

(h) the *swing service fee* calculated under clause 5.17.23.

BID-ALLOC: *Notification of Swing Service Allocation through the Bid Stack*

Gas Day

Sub-Network

Pipeline

User GBO Identifier

Swing Service Provider GBO Identifier

Swing Gas Type

Swing Service Amount

Swing Service Fee

> *Notification format defined in [ICD][BID-ALLOC: Notification of Swing Service Allocation through the Bid Stack].*

(2) Notify, by means of *an automated electronic file*, the *pipeline operator*, *users* and *swing service providers* on the *pipeline* and the *network operator* of the *swing service* for the *pipeline* calculated under clause 5.15.4.

SS: *Swing Service*

Gas Day

Sub-network

Pipeline

Swing service for the pipeline

    Notification format defined in [ICD][SS – Swing Service]

(3) Notify, by means of *an automated electronic file*, the *users* and *swing service providers* the *marginal clearing price* for the total amount of *swing service* to be procured through the applicable bid stack (**"MCP(TSS(BS))"**) calculated in clause 5.17.14(2).

MCP-TSS: *Marginal Clearing Price for the total Amount of Swing Service*

Gas Day

Sub-Network

Pipeline

Marginal Clearing Price

    Notification format defined in [ICD][MCP-TSS: Marginal Clearing Price for the total Amount of Swing Service].

(4) Notify, by means of *an automated electronic file*, to the *users* and *swing service providers* the *marginal clearing price* for the total amount of *swing service* to be procured through the applicable bid stack (**"MCP(ANUSA)"**) calculated in clause 5.17.15(2).

MCP-TANUSA: *Marginal Clearing Price for the total adjusted non-user-specific amounts of Swing Service*

Gas Day

Sub-Network

Pipeline

Marginal Clearing Price

    Notification format defined in [ICD][MCP-TANUSA: Marginal Clearing Price for the total adjusted non-user-specific amounts of Swing Service].

(5) Notify, by means of *an automated electronic file*, each *user* for each *pipeline* for each *sub-network* of the *user's* swing service amounts.

USS: *User's swing service amounts*

User's GBO Identification

Gas Day

Sub-network

User's Penalty Amount of Swing Service

User's (pre-procurement) Amount of Swing Service

User-specific amount of swing service

User's Non-user-specific Amount of Swing Service

User's Adjusted Non-user-specific Amount of Swing Service

User's Adjusted User-specific Amount of Swing Service

Notification format defined in [ICD][USS – User's swing service amounts].

(6) For each *pipeline* for each *sub-network* for each *gas day*, notify, by means of *an automated electronic file*, each *user* and each *swing service provider* who is a party to an *applied request* under clause 5.16.9 for the *gas day* of the details of the *applied request* including the quantity allocated in the *applied request*.

OMP-APP: *Applied Requests*

User's GBO Identification

Gas Day

Sub-network

Pipeline

Swing Service Provider GBO Identification

Quantity applied in mega joules.

Park or Loan procurement

Notification format defined in [ICD][OMP-APP – Applied Requests].

(7) For each *user* for each *sub-network* notify, via an *automated electronic file*, the *user* and the *swing service provider* of the s*wing service repayment quantity* (**"SRQ"**) arising from *gas day D* as calculated in clause 5.17.25.

SRQ: *Swing Service Repayment Quantity*

User's GBO Identification

Gas Day

Swing Service Provide GBO identification

Sub-network

Swing Service Repayment Quantity

Notification format defined in [ICD][SRQ – Swing Service Repayment Quantity].

(8) For each *sub-network* for each *pipeline* notify, by means of *an automated electronic file*, the *bid stack* to *users* and *swing service providers* setting out for each *bid* the volume and price of the *bid* but not the identity of the *swing service provider* who lodged the *bid*.

BID-PUB: *Bid Stack Publication*

Gas Day

Sub-Network

Pipeline

Swing Gas Type

Swing Gas Quantity

Bid Price

Notification format defined in [ICD][BID-PUB: Bid Stack Publication].

<center>5.18. **Subscription for swing gas information**</center>

5.18.1. Subscription for information [RMR][277(1)]

A person may apply to *REMCo* to become a "**subscriber"** for a *sub-network* for a year upon:

(1) the payment of an annual fee nominated by *REMCo* from time to time; and

(2) agreeing to be bound by any confidentiality obligations specified by *REMCo* from time to time

5.18.2. The data estimation entity to notify subscribers [RMR][277(2)]

For each *gas day*, by no later than 5 hours after the end of the *gas day*, *the data estimation entity* must notify, via *an automated electronic file*, each *subscriber* of the following data for the *sub-network*:

(1) each *bid stack* for the *gas day;*

BID-PUB: Bid Stack Publication

Gas Day

Sub-Network

Pipeline

Swing Gas Type

Bid Price

Swing Gas Quantity

>   *Notification format defined in [ICD][BID-PUB: Bid stack publication].*

(2) for each *pipeline*, the *marginal clearing price* for the total amount of *swing service* to be procured through the *bid stack* for the *gas day* determined under clause 5.17.14;

MCP-TSS*: Marginal Clearing Price for the Total Amount of Swing Service*

Gas Day

Sub-Network

Pipeline

Marginal Clearing Price

>   *Notification format defined in [ICD][MCP-TSS: Marginal clearing price for the total amount of swing service].*

(3) for each *pipeline*, the *marginal clearing price* for the total of all *adjusted non-user-specific amounts* of *swing service* to be procured through the *bid stack* for the *gas day* determined under clause 5.17.15(2);

MCP-TANUSA: *Marginal Clearing Price for the total adjusted non-user-specific amounts of Swing Service*

Gas Day

Sub-Network

Pipeline

Marginal Clearing Price

Notification format defined in [ICD][MCP-TANUSA: Marginal Clearing Price for the total adjusted non-user-specific amounts of Swing Service].

(4) for each *pipeline*, the *swing service* calculated under clause 5.15.4.

SS: *Swing Service*

Gas Day

Sub-network

Pipeline

Swing service

Notification format defined in [ICD][SS: Swing Service].

5.19. **Multi shipper allocation agreement**

5.19.1. Multi shipper allocation agreement[RMR][302]

(1) This section applies to a *gate point* if a *transmission contract* or *Access Arrangement* requires an agreement between all *shippers* who receive gas, and all *swing service providers* who receive gas park or loan services, from the *pipeline operator* at the *gate point* (sometimes known as a **"multi-shipper allocation agreement"**), regarding how actual deliveries of gas at the *gate point* are apportioned between *shippers* and *swing service providers*.

(2) The allocations which will apply as the *multi-shipper allocation agreement* for the *gate point* for each *gas day* are as follows:

(a) each *shipper* is deemed to have taken delivery of its *shipper's hourly gate point apportionment* for each hour in the *gas day* for the *pipeline* which interconnects to the *gate point*, calculated under rule 5.14.6;

(b) each *shipper* is deemed to have taken delivery of its *shippers deemed injection* for the *gas day* for the *pipeline* which interconnects to the *gate point*, calculated under rule 5.12.1;

(c) each *swing service provider* is deemed to have received an amount of park or loan service from the *pipeline operator* at the *gate point*, as specified in:

(i) an *applied* procurement *request* under rule 5.16.8(1)(b); or

(ii) a *contract note* under rule 5.17.29(1).

(3) To avoid doubt, if rule 5.19.1 requires a *user* to procure the *injection* or *repayment* into the *sub-network* of a negative amount of gas on a *gas day*, that negative amount is to be included in the calculations for the *multi-shipper allocation agreement* and may result in a *shipper* having a negative *deemed injection* for the *gas day*.

5.19.2. Data Estimation Entity to calculate swing quantity [RMR][302(2)]

For each *swing service provider* for each *pipeline* for each *sub-network* for each *gas day*, the *data estimation entity* must determine the *swing service provider's* "**swing service quantity**" (**"SSQ"**) that the *swing service provider* is deemed to have received for the *gas day* as follows.

$$SSQ = \sum SSA + \sum AR$$

where:

SSQ = the *swing service provider's swing service quantity* for the *gas day* for the *pipeline* for the *sub-network,* in megajoules;

$\sum SSA$ = the sum of the *swing service amount* that the *swing service provider* provided for the *pipeline* for the *sub-network* for the *gas day,* in megajoules calculated under clause 5.17.24;

$\sum AR$ = the sum of the *swing service provider's applied trades* for the *pipeline* for the *sub-network* for the *gas day* calculated under clause 5.16.9;

5.19.3. Data Estimation Entity to calculate deemed gas quantity [RMR][302(2)]

For each *shipper* and *swing service provider* for each *pipeline* for each *sub-network* for each *gas day,* the *data estimation entity* must determine the "**deemed gas quantity**" (**"DGQ"**) for the *gas day* as follows.

$DGQ = DI + SSQ$

where:

DGQ = the *deemed gas quantity* for the *gas day* for the *pipeline* for the *sub-network* that the *swing service provider* or *shipper*, as applicable, received, in megajoules;

DI = the sum of the *deemed injection* for the *pipeline* for the *sub-network* for the *gas day*, in megajoules calculated under clause 5.12.1;

SSQ = the *swing service provider's swing service quantity* for the *gas day* for the *pipeline* for the *sub-network* calculated under clause 5.19.2, in megajoules.

5.19.4. Multi shipper allocation report [RMR][302(3)]

For each *pipeline* for each *sub-network* for each *gas day*, within 5 hours after the end of the *gas day*, *the data estimation entity* must notify, by means of *an automated electronic file*:

(a) each *pipeline* operator a **"multi-shipper allocation report"** setting out the information referred to in rule 5.19.1(2) for each *shipper* and *swing service provider* on the *pipeline*; and

(b) each *shipper* and *swing service provider* on the *pipeline*, a *shipper's* **"multi-shipper allocation report"** setting out the information referred to in rule 5.19.1(2) for the *shipper* or *swing service provider*.

DGQ: *Deemed Gas Quantity*

> *Gas Day*
>
> *Sub-network*
>
> *Pipeline*
>
> *Participant GBO Identification*
>
> *Deemed Gas Quantity*
>
> *Notification format defined in [ICD][DGQ: Deemed Gas Quantity].*

5.20. **There is no clause 5.20**

(1)

CGI

5.21. **There is no clause 5.21**

CGI

5.22. **Swing Service causation compensation [RMR][300A]**

No [BS] requirement. Refer to [RMR] for context only.

CGI

5.23. Recalculation of gas day results [RMR][301A]

5.23.1. Network Operator to notify REMCo of Manifest Data Errors

(1) If on *gas day D* the *network operator* becomes aware of a manifest error in the data it has provided to the *data estimation entity* on *gas day D* under either clause 4.3.2 or 4.4.7 in respect of *gas day D – 1* it may notify *REMCo* that it reasonably believes there is a manifest error in the data it has provided. Such notification must include at least the following:

(a) the rule under which the data containing the manifest error was provided to the *data estimation entity*; and

(b) if the manifest data error relates to data provided to the *data estimation entity* under clause 4.3.2, the *gate point* for which the *gate point metering data* is erroneous; or

(c) if the manifest error relates to data provided to the *data estimation entity* under clause 4.4.7, the *MIRN* for which the *interval meter* data is erroneous; and

(d) the relevant *gas day*.

(2) By submitting a notification to *REMCo* under rule 5.23.1(1) the *network operator* warrants that the notification is not fraudulent, frivolous or vexatious.

5.23.2. Commencement of affected period

(1) On receipt of a notice under rule 5.23.1(1), *REMCo* must:

(a) forthwith notify all *participants, shippers, swing service providers* and *pipeline operators* in the relevant *jurisdiction* that the allocation, reconciliation and swing results produced by the *data estimation entity* under parts 5.10 to 5.19 (inclusive) for the relevant *sub-network* and *gas day* is suspected of containing manifest errors; and

(b) forthwith notify the *GRMS operational staff* to stop the operation of the *data estimation entity* that produce the allocation, reconciliation and swing results; and

(2) *the data estimation entity* will not be required to comply with the timing requirements for the provision of notices and publication of information under parts 5.10 to 5.19 (inclusive) in respect of the *affected gas day* and each following *gas day* up to but not including the *gas day* <u>on which the affected period ceases under 5.23.3.</u>

5.23.3. Cessation of an affected period

(1) Following receipt of a notice from *REMCo* under rule 5.23.2(1)(a):

(a) if the manifest data error relates to *gate point metering data* provided under clause 4.3.2, the *pipeline operator* for the *gate point* to which the notice relates must use its reasonable endeavours to determine if the *gate point metering data* was erroneous and:

(i) if the *gate point metering data* was not erroneous notify *REMCo* as soon as reasonably practicable that the *gate point metering data* was correct; or

(ii) obtain amended physical *gate point* metering data and provide the amended physical *gate point* metering data to the *network operator* within 51.5 hours of the start of the affected gas day; or

(b) if the manifest data error relates to *interval meter* data provided under clause 4.4.7, the *network operator* for the *interval meter* to which the notice relates must use its reasonable endeavours to determine if the *interval meter* data was erroneous and:

(i) if the *interval meter* data was not erroneous, notify *REMCo* as soon as reasonably practicable that the *interval meter* data was correct; or

(ii) obtain amended *interval meter* data and provide the amended *interval meter* data to the *data estimation entity* within 51.5 hours of the start of the *affected gas day*.

(2) If the *network operator* does not provide amended interval meter data or amended *gate point* metering data within 51.5 hours of the start of the *affected gas day*, *REMCo* must notify all *participants*, *shippers*, *swing service providers* and *pipeline operators* in the relevant jurisdiction that it did not receive any updated interval metering data and, therefore, that the initial results published by the *data estimation entity* in respect of *gas day* D − 1 and each subsequent *gas day* for which results have been published by the *data estimation entity* remain valid.

(3) If the *pipeline operator* notifies *REMCo* under clause 5.23.3(1)(a)(i) or the *network operator* notifies *REMCo* under clause 5.23.3(1)(b)(i) that the data for *gas day D – 1* was not erroneous, then *REMCo* must notify all *participants, shippers, swing service providers* and *pipeline operators* in the relevant *jurisdiction* that the relevant party has confirmed that the relevant data was correct and, therefore, that the initial results produced by the *data estimation entity* in respect of *gas day D – 1* and each subsequent *gas day* for which results have been published by the *data estimation entity* remain valid.

(4) If the network operator provides *the data estimation entity* with amended gate point metering data or interval meter data for *gas day* D − 1 within 51.5 hours of the start of the affected *gas day REMCo* must:

(a) as soon as practicable recalculate the allocation, reconciliation and swing results for *gas day D – 1* and any other *gas day* subsequent to *gas day D – 1* and prior to the *gas day* on which the relevant amended data for *gas day D-1* was provided by the *network operator*; and

(b) publish the recalculated results to the relevant *participants, shippers, swing service providers* and *pipeline operators* according to parts 5.10 to 5.19.

5.23.4. RMA to instruct GRMS Operational staff

(1) If the data was not erroneous or the *network operator* did not provide amended interval meter data or amended *gate point* metering data within 51.5 hours of the start of the *affected gas day*, *REMCo* must forthwith instruct the *GRMS operational staff* to:

(a) as soon as practicable initiate and complete the calculation of the allocation, reconciliation and swing results for any subsequent *gas day* for which results have not been published by the *data estimation entity;* and

(b) resume normal operation of the *data estimation entity* in regards to the allocation, reconciliation and swing clacultions.

(2) If the data was erroneous and the *network operator* provided *the data estimation entity* with amended *gate point* metering data or interval meter data for *gas day* D − 1 within 51.5 hours of the start of the affected *gas day REMCo* must forthwith instruct the *GRMS operational staff* to:

(a) as soon as practicable initiate and complete the calculation of the allocation, reconciliation and swing results for the *affected day* and any subsequent *gas day* for which results may or may not been published by the *data estimation entity;* and

(b) resume normal operation of the *data estimation entity* in regards to the allocation, reconciliation and swing clacultions.

5.24. **There is no clause 5.24**

5.25. **There is no clause 5.25.**

5.26. **Data failure**

5.26.1. Data failure [RMR][301]

(1) If *the data estimation entity* does not receive the relevant data for an *interval metered delivery point* as required under clause 4.4.7 to calculate the *net system load* for a *sub-network* under clause 5.10.9, The *data estimation entity* must estimate the *user's* withdrawals at the *interval metered delivery point* using the *like day substitution methodology*

(2) If the *data estimation entity doe*s not receive *gate point metering data from* a *network operator by the time specified in* clause 4.3.1, then the *data estimation entity* must estimate the *gate point metering data* using the *nomination estimation methodology.*

(3) Whenever the *data estimation entity* is required under this clause 5.26.1 to estimate a value, then the *data estimation entity* may use the estimated value (in place of value which was not received) wherever necessary under these rules.

5.27. **Miscellaneous provisions**

5.27.1. Recovery from the data estimation entity Failure [RMR][304]

(1) If for any period of time on any day that is not a *business day*, the *data estimation entity* cannot perform its obligations under this section 5. because of failure of the *data estimation entity* (each a **"system down time"**), then:

(a) As soon as practicable after the *system* down *time* occurs the *data estimation entity* must rectify the system failure.

(b) On the day the system failure is rectified the *data estimation entity* must, as soon as practicable, provide the information it is required to provide under this Section 5 for each *gas day* during the *system down time* up to and including the *gas day* on which the information is provided. The information must be provided in chronological order.

(2) If the system failure only affects the input of information into the *data estimation entity*, then the *data estimation entity* will perform for each *gas day* during the *system down time* the calculations described in this Section 5 using estimates for each piece of data that it does not receive under this document. Any discrepancy between the estimates used by the *data estimation entity* and the actual data will be treated as a reconciliation under this section 5.11.

5.27.2. Maintenance and accessibility of the data estimation entity data [RMR][306]

The *data estimation entity* must *maintain* all data collected, received, generated or sent to any person by the *data estimation entity* under this Section 5 and any data that is the result of the *data estimation entity's* latest final calculation for a gas day:

(a) in a format that identifies:

(i) the time and date the data was collected, received, generated or sent by the *data estimation entity;* and

(ii) the person from whom the *data estimation* entity collected or received the data, or to whom the *data estimation entity* sent the data, or if the *data estimation entity* generated the data, the *data estimation entity* is identified as having generated the data, and

(b) for at least two years, in a format that is accessible within 2 *business days* to enable the repeated performance of calculation the *data estimation entity* is responsible for performing under this section 5 for any of and up to the previous 425 *gas days*; and

(i) at least another 5 years after that, in a format which is accessible within 5 *business days.*

5.27.3. Review of Section 5 [RMR][308]

(1) Unless otherwise unanimously agreed by all *participants* and *REMCo, REMCo* must review the operation of this section 5 of the rules, to ensure that:

(a) the *REMCo information system* is operating in accordance with this section 5; and

(b) section 5 is not having an unduly prejudicial impact on the *data estimation entity, REMCo* or any *participant*, *pipeline operator*, *prescribed person* or *interested person*.

(2) A review under clause 5.27.3 must be commenced as soon as practicable after the expiry of 6 months, 18 months and 3 years after the *go-live date*, and must be completed as quickly as practicable and in any event within 3 months.

(3) Prior to commencing a review under clause 5.27.3, *REMCo* must as a *reasonable and prudent person*, and in consultation with the persons required to comply with this section 5, determine the terms of reference, scope of work and work programme for the review.

6. Disputes

No [BS] requirement. Refer to [RMR] for context only.

7. Reporting and Audits

No [BS] requirement. Refer to [RMR] for context only.

8. Administration

8.1. **Fees, charges and cost recovery**

No [BS] requirement. Refer to [RMR] for context only.

8.2. **Confidentiality**

No [BS] requirement. Refer to [RMR] for context only.

8.3. **Payments to REMCo**

No [BS] requirement. Refer to [RMR] for context only.

8.4. **Small use customer determination**

8.4.1. REMCo to determine whether a consumer is a small use customer(WA only) [RMR][373]

(1) This clause 8.4.1 applies only in Western Australia.

(2) *The registry entity* must determine whether a *customer* is a *small use customer*, in accordance with this clause 8.4.1.

(3) In Western Australia, the determination is to be made in accordance with section 3 of the *Energy Coordination Act 1994* (WA).

> Note: At the time these rules commenced, that definition was "…means a customer whose consumption of gas is less than 1 terajoule per year".

(4) For the purposes of these rules, a *customer* at an *interval-metered delivery point*, is not a *small use customer*.

(5) Upon receipt of a valid *new connection notice* for a *basic-metered delivery point, the registry entity* must determine whether a *customer* is a *small use customer* by having regard to the information provided by the *network operator* in the *new connection notice* under clause 3.1.4(e). Specifically, the *customer* shall be deemed as a *small use customer* where *anticipated annual consumption* defined under 3.1.4(e) is less than 1TJ, otherwise the *customer* shall NOT be deemed as a *small use customer.*

(6) Within 5 *business days* of the end of each six month period, with the first six month period commencing on the *go-live date*, *the data estimation entity and the registry entity* must determine whether a *customer* is a *small use customer* by having regard to:

(a) where available, the gas consumed by the *customer* at the *delivery point* for the previous 12 month period; or

(b) otherwise , in accordance with the determination made by *the registry entity* under clause 8.4.1(4) or 8.5.1(5) (as applicable), or *the data estimation entity and the registry entity's* previous six month determination made under this clause 8.4.1(6).

Note: Upon making a determination under this clause 8.4.1, *the registry entity* must update the *REMCo registry* under clause 2.2.29(b) and provide the *user* and *network operator* with the *REMCo standing data* for the *delivery point* under clause 2.2.30(1).

8.4.2. There is no clause 8.4.2

8.4.3. There is no clause 8.4.3

8.5. **Limitation of liability**

[No BS requirement. Refer to RMR for context only.]

8.6. **Exiting the market**

[No BS requirement. Refer to RMR for context only.]

9. Rule change process

No [BS] requirement. Refer to [RMR] for context only.

10. General provisions

No [BS] requirement. Refer to [RMR] for context only.

Appendix 1 Coding of gas zones and gate points

Appendix 1.1 Western Australia

This, Appendix 1.1, applies only in Western Australia

Appendix 1.1.1. Coding of Gas Zones

To minimise the number of data fields required in the *REMCo registry* and the *network operators' databases* the concepts of licence area, *sub-network* and heating value zones are all coded using a single 5 character *gas zone code*, as follows:

ABCCD, where:

A is used to indicate who is the *network operator*. A is an alpha numeric field that can range from 0 to Z:

> 1 = AlintaGas Networks

B is used to segregate by licence area and Access Arrangement Coverage. B is a numerical field:

AlintaGas Networks in WA:

> 1 = AGN MWSW GDS
>
> 2 = AGN Kalgoorlie
>
> 3 = AGN Albany
>
> 4 = AGN The Vines

CC is a 2 character alphanumeric code used to identify the sub-network within a GDS and the code varies dependant on the A code:

AlintaGas Networks in WA (i.e. where A = 1) CC equals as follows:

> 01 = Geraldton (Nangetty Road)
>
> 02 = Eneabba;
>
> 03 = Muchea;
>
> 04 = The Vines
>
> 05 = Ellenbrook;
>
> 06 = Metro North
>
> 07 = Metro South
>
> 08 = Barter Road, Naval Base;
>
> 09 = Rockingham;
>
> 10 = Pinjarra;
>
> 11 = Oakley Road (Pinjarra);
>
> 12 = Harvey;
>
> 13 = Kemerton;
>
> 14 = Clifton Road, Bunbury.
>
> 15 = Albany

16 = Kalgoorlie

D is used to identify a heating value zone within a *sub-network*.

Examples:

The Harvey sub network in AlintaGas Networks MWSW GDS	11121
The Pinjarra sub network in AlintaGas Networks MWSW GDS	11101
The Kalgoorlie sub network in AlintaGas Networks Kalgoorlie GDS	12161

Appendix 1.1.2. Coding of Gate points

A *gate point* for a *sub-network* means a point (which may be the same location as a physical gate station), which is designated as the *gate point* under clause 1.5.1 for the *sub-network* from a *pipeline* and it is the sum of all "physical gate points" from that *pipeline* on a *sub-network*.

Examples:

In Western Australia there are 4 gate stations (each with an associated *physical gate point*) supplying gas to the North Metro *sub-network* in AlintaGas Networks' MWSW GDS, three from the DBNGP (Harrow St, Della Rd and Caversham) and one from the Parmelia Pipeline at Harrow St. as a result there are two *gate points* one that is the aggregate of the 3 DBNGP physical gate points and one that equates to the Parmelia *physical gate point*.

The same base coding is used to identify *gate points* at which gas is supplied into each *sub-network* from each *pipeline*. The coding used is as follows:

ABCCE, where:

A is used to indicate who is the *network operator*. A is an alpha numeric field that can range from 0 to Z, refer above for details.

B is used to segregate by licence area and Access Arrangement Coverage. B is a numerical field, refer above for details.

CC is a 2 character alphanumeric code used to identify the sub-network within a GDS and the code varies dependant on the A code, refer above for details.

E is used to indicate which pipeline the gate is connected to. E is an alpha field that can range from A to Z:

AlintaGas Networks in WA: D = Dampier to Bunbury Natural Gas Pipeline

P = Parmelia Pipeline

G = Goldfields Gas Transmission Pipeline

L = LPG supply

Examples:

The Gatepoint on the DBNGP that supplies the Harvey sub network in AlintaGas Networks MWSW GDS	1112D
The Gatepoint on the Parmelia that supplies the North Metro sub network in AlintaGas Networks MWSW GDS	1106P
The Gatepoint on the GGT that supplies the Kalgoorlie sub	1216G

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network in AlintaGas Networks Kalgoorlie GDS	
The Gatepoint on the Parmelia pipeline that supplies the Perth Metro South sub network in ATCO Gas Network's MWSW GDS.	1107P

Appendix 1.2 – There is no Appendix 1.2

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Appendix 2 Estimation and Verification Methodology

Appendix 2.1 Western Australia

[No BS requirement. Refer to RMR for context only.]

Appendix 2.2 There is no Appendix 2.2

Appendix 2.3 REMCo's Estimation Methodology for Gate Point Data, Net System Load and Interval Meters

Estimation of Data for Interval Meters

In relation to substitutions for a time interval of the 'Substitution Day' for net system load and interval meters, the *data estimation entity* is to use data from the same time interval of the first available 'Preferred Day' (as detailed in the table below) unless:

- The substitution day was a public holiday, in which case the most recent Sunday is to be used.

- The substitution day was not a public holiday but the 'Preferred Day' is a public holiday, in which case the substitution 'Preferred Day' to be used must be the most recent Preferred Day that is not a public holiday.

Substitution Day	Preferred Day (in order of availability)
Monday	Monday**
Tuesday	Tuesday** Wednesday** Thursday** Wednesday* Thursday*
Wednesday	Wednesday** Tuesday* Thursday** Thursday* Tuesday**
Thursday	Thursday** Wednesday* Tuesday* Wednesday** Tuesday**
Friday	Friday**
Saturday	Saturday**
Sunday	Sunday**

Note: * Occurring in the same week as the substitution day.

** Occurring in the week preceding that in which the substitution day occurs.

Examples: If we fail to get data for a site on Monday the 8th of January 2007. In accordance with the table we would first try Monday 1 January 2007, and as this is a public holiday, we next try Monday 25 December 2006, and as this is also a public holiday we finally end up using the data from Monday 18th December 2006 as estimate for Monday the 8th of January 2007.

Similarly if we need data for Friday the 2nd of May 2003, we first try Friday 25 April, ANZAC day, next try Friday 18 April, Good Friday, and finally use Friday 11th April.

Estimation of Data for Gate Point Meters

In relation to substitutions for a time interval of the 'Substitution Day' for *gate point* meter data, the *data estimation entity* is to use the *nomination estimation methodology* as outlined below:

- Summing the *profiled pipeline nominations* for the relevant *sub-network* and *pipeline* for the relevant *gas day;*

Appendix 3 – Calculation of the MIRN checksum

Appendix 3.1 Calculating the MIRN checksum

Under this document, a one digit checksum is used to reduce the frequency of *MIRN* data entry errors which cause *transfer errors*.

A summary of the algorithm used to create the *MIRN checksum* is:

(1)   Double the ASCII value of alternate digits within the *MIRN* beginning with the right-most digit.

(2)   Add the individual digits comprising the products obtained in step 1 to each of the unaffected ASCII value digits in the original number.

(3)   Find the next highest multiple of 10.

(4)   The check digit is the value obtained in step 2 subtracted from the value obtained in step 3.

If the result of this subtraction is 10 then the check digit is 0.

Section Appendix 3.2 provides a worked example of the algorithm. Section Appendix 3.3 provides samples.

The *MIRN checksum* is always a numeric character.

The checksum is required for applications where data entry occurs and there is a risk of character transposition, for example from paper to electronic systems or through an interactive telephone service.

Appendix 3.2 Worked example

The logic of the algorithm can be summarised as:

   (a) Individually process each alphanumeric character in the *MIRN*, starting with the right most.

   (b) For each character:

      (i) convert the character to its ASCII value; and

      (ii) for the right most character and each alternate character reading left, double the ASCII value obtained in step (b)(ii), above; and

      (iii) calculate the sum of the individual digits of the ASCII value to a register holding the total added value for the *MIRN checksum*.

   (c) Subtract the total added value register from the next highest multiple of 10.

If the result is 10, the checksum is 0, otherwise the result is the checksum.

The *MIRN* for the example is **5600012357**

(1) Step 1.   Initialise variables used by the process.

   (a)   **Double_This_Char** is a Boolean that indicates whether the character currently being processed should be doubled.

   (b)   **Char** is the character currently being processed, as it appears in the MIRN.

   (c)   **ASCII_Char** is the ASCII value of **Char**.

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(d)   **Total** is the running sum of the digits generated by the algorithm.

(e)   **Checksum** is the final result.

At the start of the process:

- **Double_This_Char = True** because the right most character, and then every alternate character, is doubled by the algorithm.

- **Total = 0**

- **Checksum = NULL**

(2) Step 2:   Read the MIRN character by character, starting with the right most character.

eg. Char = 7

(3) Step 3:   Convert the character to its ASCII value.

eg. ASCII_Char = 55

(4) Step 4.   Double the ASCII value if the character is the right most of the MIRN or an alternate.

eg. ASCII_Char = 110

Double_This_Char = Not Double_This_Char

(5) Step 5:   Add the individual digits of the ASCII value to the Total.

eg. Total = Total + 1 + 1 + 0 (i.e. Total = 2)

Performing steps 2 through 5 for each character in our example *MIRN* gives the following results:

Character	Total Before	ASCII Value	Double?	Doubled Value	Total After
7	0	55	Y	110	2 (1+1+0)
5	2	53	N	53	10 (2+5+3)
3	10	51	Y	102	13 (10+1+0+2)
2	13	50	N	50	18 (13+5+0)
1	18	49	Y	98	35 (18+9+8)
0	35	48	N	48	47 (35+4+8)
0	47	48	Y	96	62 (47+9+6)
0	62	48	N	48	74 (62+4+8)
6	74	54	Y	108	78 (74+1+0+8)
5	83	53	N	53	91 (83+5+3)

The value of **Total** after processing the entire *MIRN* is 91.

The next highest multiple of 10 is 100.

Therefore, the *MIRN checksum* = 100-91 = 9

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Appendix 3.3 Samples

The following checksums were calculated under clause Appendix 3.2. The *MIRN* and *MIRN checksums* are provided to assist participants in checking their implementation of the *MIRN checksum* algorithm.

MIRN	MIRN checksum	MIRN	MIRN checksum
5500000278	4	5600000278	2
5500003074	5	5600003074	3
5500008129	2	5600008129	0
5500012357	8	5600012357	9
5500023478	0	5600023478	8
5500047359	4	5600047359	2
5500067253	5	5600067253	3
5500079467	6	5600079467	4
5500089000	8	5600089000	6
5500099352	6	5600099352	4
5500102781	5	5600102781	3
5500139654	8	5600139654	6
5500200000	4	5600200000	2
5500289367	3	5600289367	1
5500346583	7	5600346583	5

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Appendix 4 Auditor's deed of undertaking

[No BS requirement. Refer to RMR for context only.]

Appendix 5 Calculations, Rounding and Units

Appendix 5.1.1. Rounding

Where a *participant, pipeline operator* or *prescribed persons* is required to calculate a value under these rules, the calculation must not truncate any value.

A derived value has accuracy equal to the accuracy of the least accurate input variable to the calculation.

For example:

For a value derived from the product of two variables, one accurate to two decimal places and one accurate to three decimal places, the product will initially be set to three decimal places to allow for rounding to a final precision of two decimal places.

Rounding will only be applied to the final value derived in the calculation process. If the last digit is a 5, the value is rounded up.

For example:

ROUND	2.14	to one decimal place	equals 2.1
ROUND	2.15	to one decimal place	equals 2.2
ROUND	2.159	to one decimal place	equals 2.2
ROUND	2.149	to two decimal places	equals 2.15
ROUND	1.485	to two decimal places	equals 1.49

Appendix 5.1.2. Calculations

In all cases:

$$TE = PCF \times HV \times V$$

where:

TE = total energy;

PCF = *pressure correction factor*; and

V = volume.

Example 1 Total Energy Calculation:

PCF of 1.0989

HV of 39.81

Volume of 200

Total energy = 1.0989 * 39.81*200

= 8749.4418

Rounded to 8749

Example 2 Total Energy Calculation:

PCF of 1.0989

HV of 41.89

Volume of 200

Total energy = 1.0989 * 41.89* 200

= 9206.5842

Rounded to 9207

Example 3 Total Energy Calculation:

PCF of 1.0989

HV of 38.55

Volume 345 hundred cubic feet

Total energy = 1.0989*38.55*(345*2.832)

= 41389.94982

Rounded to 41390

Appendix 5.1.3. Units

The total energy calculated by network operators will be expressed in megajoules for all meters.

Appendix 6 Requirements for explicit informed consent (WA only)

[No BS requirement. Refer to RMR for context only.]

Appendix 7 Swing Service Provision Umbrella Deed (SSPUD)

[No BS requirement. Refer to RMR for context only.]

Appendix 8 Terms and conditions for Swing Service Provider of Last Resort

[No BS requirement. Refer to RMR for context only.]

Appendix 9 Fallback User-Shipper Agreement

[No BS requirement. Refer to RMR for context only.]

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Appendix 10 Swing Service Causation Compensation Terms

[No BS requirement. Refer to RMR for context only.]

Appendix 11 There is no Appendix 11

Appendix 11.1 There is no Appendix 11.1

Appendix 11.2 There is no Appendix 11.2

Appendix 11.3 There is no Appendix 11.3

Appendix 11.4

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