

Retail Energy Market Company Limited ABN 15 103 318 556 228 Adelaide Terrace Perth WA 6000 Telephone: (618) 6212 1829 Facsimile: (618) 6212 1038 www.remco.net.au

16 June 2011

Mr Lyndon Rowe Chairman Economic Regulation Authority Level 6, Governor Stirling Tower 197 St Georges Terrace PERTH WA 6000

Dear Mr. Rowe

Re: Approval of Amendments to the REMCo Retail Market Scheme – Rule Change C04/11R

Under section 11ZOL of the *Energy Coordination Act 1994* (the "Act"), Retail Energy Market Company Ltd ("REMCo") may prepare an amendment to its Retail Market Scheme (the "Scheme"), and submit the amendment to the Economic Regulation Authority (the "Authority") for approval. The Authority is to approve amendments to the Scheme under section 11ZOM of the Act.

The Scheme is defined to include, amongst other things, the REMCo Retail Market Rules (the "Rules"). REMCo is applying to the Authority for the following amendment to the Scheme.

C04/11R Amendments to a Notice of New or Changed Sub-Network Classification

This Rule Change proposes to make the following changes to Version 6.1 of the Rules:

- add a new definition to Rule 2 for "covered sub-networks":
- amend Rule 15 to:
 - extend the lead-time for REMCo to convert sub-networks from one type of sub-network to another from 20 to 40 business days; and
 - add a new obligation on the Network Operator to validate that only one delivery point exists on any farm tap sub-network;
- amend Rule 171A by replacing "as soon as practicable" with "at least 40 business days"; and
- amend Appendix 3 to remove a typographical error in the check sum calculation of MIRN 5500012357.

The Rule Change Committee (the "Committee") discussed Rule Change C04/11R at its meeting on 10/05/11, and unanimously voted to endorse the proposed change as a "low-impact" Rule change.

As required under Rule 399A(1)(a), REMCo subsequently published Rule Change C04/11R for consultation on 20/05/11. The consultation for this endorsed Rule change closed on 03/06/11 and no objections or submissions of support were received.

As a result, REMCo is authorised to submit Rule Change C04/11R to the Authority for approval.

REMCo would like to implement the revised Version 6.2 of the Rules on 01/08/11. As a result, REMCo would appreciate it if the Authority could consider, approve, and publish the approvals for Rule Changes C04/11R in the Gazette by this date.

Section 11ZOO of the Act specifies the criteria that the Authority is to consider in determining whether to approve an amendment to the Scheme. A table is provided in Attachment 1 to this letter that lays out the requirements that the Authority is to consider under section 11ZOO for Rule Change C04/11R. This table also provides REMCo's commentary as to why it believes these criteria have been met.

In addition to Attachment 1, the following documents are enclosed to assist the Authority in its deliberations on Rule Change C04/11R:

- the Impact and Implementation Report for Rule Change C04/11R; and
- the Rule Change Recommendation Report for Rule Change C04/11R.

Once the Authority approves Rule Change C04/11R, REMCo will post the revised version of the Rules on its website; including both a clean copy and a copy with the changes marked.

I am available on (08) 6212 1829 or on 0421 093 598 if you would like set up a meeting to discuss this application, or if have any questions or need any further information.

Yours sincerely

STEPHEN ELIOT
Chief Executive Officer

Copy: Ms Wana Yang, Assistant Director, Markets

Attachment 1 – Rationale for Rule Change C04/11R Meeting the Requirements for Rule Change under the Act

Section	Requirement	REMCo Comment
11ZOO(1)	The Authority may approve an amendment to the Scheme if it is satisfied that:	
	(a) if the amendment is made, the provisions of the Scheme:	
	(i) will comply with the Act; and	Rule Change C04/11R will:
		add clarity to the different types of sub-networks covered by the Rules;
		 oblige the network operator (WA Gas Networks) to monitor "farm tap" sub- networks to ensure that they have only one end-use customer, and to notify REMCo if additional end-use customers are added to a farm tap;
		allow REMCo 40 business days (rather than the current 20 business days) to convert a sub-network from one type of sub-network to another; and
		fix a typographic error.
		The first three changes listed above will clarify the Rules regarding farm tap subnetworks, and arose out of some issues in 2010/11 with respect to the Kemerton farm tap, which had more than one end-use customer.
		The fourth change listed above is a non-consequential matter.
		Since Rule Change C04/11R will clarify operation of the Scheme, and the Scheme currently complies with the Act, REMCo submits that the Scheme will continue to comply with the Act if the Authority approves these changes.
	(ii) be suitable for the purposes of section 11ZOB;	Section 11ZOB indicates that the purpose of the Scheme is to ensure that the retail gas market is regulated and is operated in a manner that is:
		(a) open and competitive;
		(b) efficient; and
		(c) fair to gas market participants and their customers.
		REMCo submits that the amendments to the Scheme proposed by Rule Change C04/11R are administrative in nature and will have no impact on whether the Scheme meets the above criteria.
	(b) any other principle, criterion, or requirement that is prescribed for the purposes of this paragraph has been met.	REMCo is not aware of any regulations under section 11ZOO(b), so this section of the Act is not applicable.

Attachment 1 – Rationale for Rule Change C04/11R Meeting the Requirements for Rule Change under the Act

Section	Requirement	REMCo Comment
11ZOO(2)	The Authority may approve an amendment to the Scheme under section 11ZOM only if it is satisfied that the consultation required by section 11ZOL(3) has taken place and:	The proposed changes were approved by the Committee at its meeting on 10/05/11, where the Committee unanimously voted to endorse C04/11R as a "low impact" Rule change because it:
	(a) Each person required to be consulted has agreed to the amendment; or (b) If any person required to be consulted has not so agreed, that person has	 has no impact on the information technology systems of REMCo, participants, pipeline operators, or prescribed persons;
	been given a reasonable opportunity in the course of consultation to provide reasons for not agreeing, and any reasons so provided have been considered.	 does not materially alter consumer protection mechanisms under the Rules; and
		 does not materially impact REMCo, participants, pipeline operators, or prescribed persons.
		As required under Rule 399A(1)(a), REMCo published Rule Change C04/11R for consultation on 20/05/11. The consultation period for this consultation closed on 03/06/11, and no objections or submissions of support were received.
		Following close of the consultation period for Rule Change C04/11R, the Committee submitted a Rule Change Recommendation Report on Rule Change C04/11R to REMCo.
		The REMCo Board of Directors has delegated authority to the REMCo CEO to submit low impact Rule changes to the Authority, and so REMCo has authority to submit C04/11R to the Authority for approval.
		As a result, REMCo submits that it has met all of the consultation requirements for the amendments proposed in C04/11R, and that each person required to be consulted has agreed to the amendment.



Retail Energy Market Company

IMPACT & IMPLEMENTATION REPORT – SUMMARY SECTION

(For REMCo to complete and administer)

Rule Change Number	C04/11R			
Impacted jurisdiction(s)	Western Australia			
Proponent	Tim Sheridan	Company	REMCo	
Industry consultative forum(s) used	RCC	Date concluded by Rule Change Committee ("RCC")	10/05/11	
Rule change ranking (as per Chapter 9): Non-substantial Low impact High impact	Low impact			
Short description of change(s)	Amendments to a notice of new or changed sub-network classification			
Rule(s) or documentation impacted	Rules 2, 15, 171A and Appendix 3 of the Retail Market Rules.			
Summary of the change(s)	Amendments to Versions 6.1 of the Rules in relation to a notice of new or changed sub network classification and a minor typographical error in Appendix 3.			
I&IR prepared by	Tim Sheridan	Approved by	Stephen Eliot	
Date I&IR published	20/05/11	Date consultation concludes	3/06/11	
Contact address for written responses REMCo Rule Change C/- AEMO GPO Box 2008 Melbourne VIC 3001				
Email address for responses	remco_adminstration@aemo.com.au			
Other key contact information				

IMPACT & IMPLEMENTATION REPORT - DETAILED REPORT SECTION

CRITICAL EXAMINATION OF PROPOSAL

 Description of change(s) and reasons for change(s) This Impact and Implementation Report ("I&IR") has been developed by REMCo in accordance with Rule 397, and outlines the low impact rule change (C04/11R), which proposes to make the following amendments to Version 6.1 of the Retail Market Rules (the "Rules"):

- Add a new definition to Rule 2 called "covered subnetworks";
- Amend Rule 15 to extend the lead-time from 20 business days to 40 business days and add a new obligation on the Network Operator to validate that only one delivery point exists on farm tap sub-networks;
- Amend Rule 171A by removing the "as soon as practicable" and replace it with "at least 40 business days"; and
- Amend Appendix 3 to remove a typographical error in the check sum calculation of MIRN 5500012357.

At the Retail Change Committee ("RCC") meeting on 10/05/11, REMCo tabled a Proposed Rule Change ("PRC") for discussion identifying proposed amendments. At the meeting, the RCC endorsed the proposed amendments as a low impact rule change.

The precise amendments which form part of this Rule change are detailed in Attachment A to this I&IR.

- 2. Reference documentation
 - Retail Market Rules (the "Rules");
 - Business/Information Specification Pack Reference; and/or
 - Other Reference.

The reference documentation includes:

The Retail Market Rules - Version 6.1.

The high-level details of the change(s) to the existing Rules.

This includes:

- a comparison of the existing operation of the Rules to the proposed change to the operation of the Rules; and
- a marked up version of the proposed Rule changes (see Attachment A)

This low impact rule change proposes to make the following amendments to Version 6.1 of the Rules:

- Add a new definition to Rule 2 called "covered subnetworks",
- Amend Rule 15 to extend the lead-time from 20 business days to 40 business days and add a new obligation on the Network Operator to validate that only one delivery point exists on farm tap sub-networks;
- Amend Rule 171A by removing the "as soon as practicable" and replace it with "at least 40 business days"; and
- Amend Appendix 3 to remove a typographical error in the check sum calculation of MIRN 5500012357.

	These amendments are to be published in a new Version 6.2 of the Rules and are detailed in Attachment A to this I&IR.	
4 Explanation regarding the order of magnitude of the change	The impact of the proposed amendments as described in this I&IR are considered to be 'low impact' as the amendments:	
(e.g. material, non-material or non-substantial)	(a) do not materially impact the information technology systems of REMCo, participants, pipeline operators or prescribed persons;	
	(b) do not materially alter consumer protection mechanisms under the Rules; and	
	(c) do not have a material commercial impact on REMCo, participants, pipeline operators or prescribed persons.	

	ASSESSMENT OF LIKELY EFFECT OF PROPOSAL				
5.	Overall Industry cost/benefit analysis	REMCo has not incurred any costs in the development of this Rule change and has received information for WA Gas Networks which indicated that the proposed amendments to Rules 15 and 171A would require changes to its reporting systems.			
	(tangible / intangible / risk) and/or cost estimates				
		However, WA Gas Network's indicated that the impact of these changes is minimal; with a one day turn around at minimal cost.			
		No other market participant has provided information on the cost or impact of this Rule change on their business.			
		Benefits			
		REMCo considers that if the proposed amendments are adopted, then any future farm-tap reclassifications would likely be implemented in a more concise and timely fashion. The improved validation will add further rigor and transparency in the case of a further delivery point being added to a farm tap.			
6.	The likely effect of the change(s) on stakeholders (e.g. industry or endusers)	Apart from the changes that WA Gas Networks will need to make, as discussed in section 5, there is not expected to be any effect on stakeholders or their systems as a result of the proposed amendments, as described in this I&IR.			
7.	Testing requirements	There are no testing requirements.			
8.	Consideration of the recommended Rule change by REMCo under Rule 399. REMCo must either: endorse the recommended rule change; or reject the recommended rule change	In accordance with Rule 399, REMCo endorses the low impact Rule change as previously determined by the RCC under Rule 397.			
9.	Consultation forum outcomes	REMCo developed a Proposed Rule Change ("PRC") which outlined the proposed amendments and circulated this PRC on 3/05/11 to			

(e.g. the conclusions made on the change(s), whether there was unanimous approval, any dissenting views)	the following market participants: a. WA Gas Networks, as the network operator; b. Alinta Sales, as a user, shipper and swing service provider; c. APT, as a pipeline operator and swing service provider; d. DBP, as a pipeline operator; e. Premier Power Sales, as a user; f. Perth Energy, as a user; and g. Synergy as a user, shipper and swing service provider. The PRC was discussed at the RCC meeting on 10/05/11 where it was endorsed by the RCC as a low impact Rule change.
10. Legal review: does this rule change impact the ACCC authorisation? is an external legal review required?	The ACCC authorisation is for Chapters 5 and 6, and Appendices 7 to 10 of the Rules. As a result, the rule change does not impact the ACCC authorisation; and no external legal review is required.
11. Should the proposed Rule change be made, (with or without amendments)?	REMCo recommends that the proposed amendments described in this I&IR be made without further amendments.
12. If applicable, a proposed effective date for the proposed Rule change(s) to take effect and justification for that timeline.	The effective date for this Rule change and Version 6.2 of the Rules is targeted for 01/08/11.

ATTACHMENT A - Amendments to Version 6.1 of the Rules

All amendments to the Rules are change marked, where <u>underlining (blue)</u> represents an addition, and strike (red) through represents a deletion.

2. Definitions

""covered **sub-network"** - means a <u>sub-network</u> that is not a <u>farm tap sub-network</u> or is not an <u>uncovered sub-network</u>.

15. Identification of sub-networks, gas zones and gate points

- (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 the section of Appendix 1, or propose to change an existing farm tap sub-network, uncovered sub-network, or covered sub-network as listed in Appendix 1, that is applicable to the jurisdiction in which the network operator's GDS resides. If the network operator does so, it must notify REMCo of the proposed new sub-network or proposed changes to an existing farm tap sub-network, uncovered sub-network, or covered sub-network at least 20 40 business days before the new sub-network becomes operational, or before the proposed changes to an existing farm tap sub-network, uncovered sub-network, or covered sub-network become operational.
- (4) Upon receipt of notification under rule 15(3), *REMCo* must verify the establishment of the new <u>or changed sub-network</u>, and, if satisfied with its verification, must <u>publish</u> to each <u>participant</u>, <u>pipeline operator</u> and <u>prescribed person</u> an update to the relevant section of Appendix 1 specifying the new <u>or changed sub-network</u> and its identifying code and any applicable new <u>gate point</u> and its code.
- (5) For each gas day and for each farm tap sub-network listed in Appendix 1, the network operator must validate that only one delivery point exists on that farm tap sub-network. If more than one delivery point is indentified on a farm-tap sub-network, then the network operator must notify REMCo within one business day.

171A. Exemption for farm tap sub-networks and single pipeline subnetworks

- (1) This Chapter 5 does not apply in respect of:
 - (a) a farm tap sub-network; or
 - (b) an uncovered sub-network.

- (5) If a *network operator* of a *sub-network* identified in rule 171A(1) becomes aware that:
 - (a) in the case of a farm tap sub-network it is proposed to add one or more further delivery points to the existing delivery point;
 - (b) in the case of an uncovered sub-network— it is proposed that the sub-network become a covered pipeline as defined in the National Gas Access (Western Australia) or subject to any other third party access regime under a law or under an instrument having effect under a law;
 - (c) in the case of an *covered sub-network* it is proposed that the *sub-network* become an uncovered pipeline as defined in the *National Gas Access (Western Australia)*,

the *network operator* must advise *REMCo* of the proposal and provide *REMCo* with information in reasonable detail regarding the proposal as soon as practicable at least 40 business days prior to more than one delivery point being commissioned on a farm tap sub-network as prescribed in rule 171A (2)(a), or prior to an uncovered sub-network becoming a covered pipeline as prescribed in rule 171A(2)(b), or prior to a covered sub-network becoming an uncovered sub-network as prescribed under rule 171A(2)(c).

- (6) For a *sub-network* that is connected to a single *pipeline*:
 - (a) Part 5.10, Part 5.11, Part 5.12 and Part 5.12A do not apply; and
 - (b) in each of the following rules, if applicable, the provisions in relation to swing service, swing service providers and swing service repayment quantities are to be disregarded:

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Rule 221;
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Rule 228;

Rule 246;

Rule 248;

Rule 249;

Rule 252;

Rule 253; and

Rule 302.

Appendix 3

3.1.3 Samples

The following checksums were calculated under clause **Error! Reference source not found.**. 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 1	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



Rule Change Final Recommendation Report

C04/11R - Notice of New or Changed Sub-Network Classification

Date of Rule Change Committee Meeting: 10 May 2011

Prepared By	Tim Sheridan
Approved By	Stephen Eliot

Executive Summary

As required under Rule 399A(1), REMCo published the following endorsed Rule change for consultation on 20/05/11:

C04/11R – Notice of New of Changed Sub-Network Classification

The consultation for the Rule change closed on 03/06/11, and no objections or submissions of support were received for this Rule change.

Under Rule 399A(3), the Rule Change Committee (the "Committee") can agree to prepare a report recommending to REMCo that it treat the Rule change as a low impact Rule change and submit it for approval to the Economic Regulation Authority (the "ERA"), as if it were made under Rule 396A. REMCo has prepared a draft of such a report on behalf of the Committee for its endorsement as set out in **Schedule A**.

Recommendation

It is recommended that the Committee pass the following decisions:

That under Rule 399A(3), the Committee endorses the draft report set out in Schedule A for submission to REMCo in relation to the following low impact Rule change:

C04/11R – Notice of New of Changed Sub-Network Classification.

Introduction

a) Final Report

This report has been prepared by REMCo under Rule 399A(3) on behalf of the Committee following its meeting on 10/05/11.

b) Purpose of Report

The purpose of this report is to enable REMCo to determine, in respect of Rule Change C04/11R, whether to adopt the endorsed Rule Change for approval by the ERA.

Information relating to Rule Change C04/11R is set out in Schedule A.

c) Consultation

In accordance with Rule 399A(1), participants, pipeline operators, prescribed persons and interested persons were invited to make submissions on the endorsed Rule change.

REMCo received no objections or submissions of support in relation to Rule Change C04/11R.

C04/11R - Notice of New or Change Sub-Network Classification

Rule Change Description

This Rule Change proposes to make the following changes to Version 6.1 of the Retail Market Rules (the "Rules"):

- Add a new definition to Rule 2 called "covered sub-networks";
- Amend Rule 15 to:
 - extend the lead-time for REMCo to convert sub-networks from one type of sub-network to another from 20 to 40 business days; and
 - to add a new obligation on the Network Operator to validate that only one delivery point exists on any farm tap sub-network;
- Amend Rule 171A by replacing "as soon as practicable" with "at least 40 business days"; and
- Amend Appendix 3 to remove a typographical error in the check sum calculation of MIRN 5500012357.

Rule Change Development

The proposed changes in Rule Change C04/11R were raised for consideration of the Committee at its meeting on 10/05/11. It was recommended that the Committee consider Rule Change C04/11R as having a 'low impact' as the amendments do not:

- (a) materially impact the information technology systems of REMCo, participants, pipeline operators or prescribed persons;
- (b) materially alter consumer protection mechanisms under the Rules; and
- (c) have a material commercial impact on REMCo, participants, pipeline operators or prescribed persons.

Market Participants Affected

This Rule Change is not considered to have any material effect on the operations of REMCo, participants, interested persons or prescribed persons.

Market Participants Consultation

REMCo circulated a Proposed Rule Change ("PRC") to the following participants on the 03/05/11:

- a. WA Gas Networks, as the network operator;
- Alinta Sales, as a user, shipper and swing service provider;
- APA, as a pipeline operator and swing service provider;
- d. DBP, as a pipeline operator;
- e. Premier Power Sales, as a user;
- f. Perth Energy, as a user; and
- g. Synergy as a user, shipper and swing service provider.

Consultation Outcomes

At the meeting on 10/05/11, the Committee unanimously agreed that the changes being considered under Rule Change C04/11R would have a low impact.

Legal Review

The ACCC authorisation is for Chapters 5 and 6, and Appendices 7 to 10

Schedule A - Report to REMCo

of the Rules. As a result, the Rule change does not impact the ACCC authorisation; and no external legal review is required.

Implementation Considerations

These changes do not have any impact on REMCo's Gas Retail Market System ("GRMS"), so there are no system costs to implement these changes.

Subject to ERA approval, Rule Change C04/11R is targeted for an effective date of 01/08/11.

Details of Change

The details of the amendments for the Rule Change are provided in **Attachment 1**.

Attachment 1 - Amendments to Version 6.1 of the Rules

REMCo Rule Change C04/11R

All amendments to the Rules are change marked, where <u>underlining (blue)</u> represents an addition, and strike (red) through represents a deletion.

2. Definitions

""covered **sub-network"** - means a *sub-network* that is not a *farm tap sub network* or is not an *uncovered sub-network*.

15. Identification of sub-networks, gas zones and gate points

- (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 the section of Appendix 1, or propose to change an existing farm tap sub-network, uncovered sub-network, or covered sub-network as listed in Appendix 1, that is applicable to the jurisdiction in which the network operator's GDS resides. If the network operator does so, it must notify REMCo of the proposed new sub-network or proposed changes to an existing farm tap sub-network, uncovered sub-network, or covered sub-network at least 20 40 business days before the new sub-network becomes operational, or before the proposed changes to an existing farm tap sub-network, uncovered sub-network, or covered sub-network become operational.
- (4) Upon receipt of notification under rule 15(3), *REMCo* must verify the establishment of the new <u>or changed sub-network</u>, and, if satisfied with its verification, must <u>publish</u> to each <u>participant</u>, <u>pipeline operator</u> and <u>prescribed person</u> an update to the relevant section of Appendix 1 specifying the new <u>or changed sub-network</u> and its identifying code and any applicable new <u>gate point</u> and its code.
- (5) For each gas day and for each farm tap sub-network listed in Appendix 1, the network operator must validate that only one delivery point exists on that farm tap sub-network. If more than one delivery point is indentified on a farm-tap sub-network, then the network operator must notify REMCo within one business day.

171A. Exemption for farm tap sub-networks and single pipeline sub-networks

- (1) This Chapter 5 does not apply in respect of:
 - (a) a farm tap sub-network; or
 - (b) an uncovered sub-network.

- (5) If a *network operator* of a *sub-network* identified in rule 171A(1) becomes aware that:
 - (a) in the case of a farm tap sub-network it is proposed to add one or more further delivery points to the existing delivery point;
 - (b) in the case of an *uncovered sub-network* it is proposed that the *sub-network* become a covered pipeline as defined in the *National Gas Access (Western Australia)* or subject to any other third party access regime under a *law* or under an instrument having effect under a *law*;
 - (c) in the case of an *covered sub-network* it is proposed that the *sub-network* become an uncovered pipeline as defined in the *National Gas Access* (Western Australia),

the network operator must advise REMCo of the proposal and provide REMCo with information in reasonable detail regarding the proposal as soon as practicable at least 40 business days prior to more than one delivery point being commissioned on a farm tap sub-network as prescribed in rule 171A (2)(a), or prior to an uncovered sub-network becoming a covered pipeline as prescribed in rule 171A(2)(b), or prior to a covered sub-network becoming an uncovered sub-network as prescribed under rule 171A(2)(c).

- (6) For a *sub-network* that is connected to a single *pipeline*:
 - (a) Part 5.10, Part 5.11, Part 5.12 and Part 5.12A do not apply; and
 - (b) in each of the following rules, if applicable, the provisions in relation to swing service, swing service providers and swing service repayment quantities are to be disregarded:

Rule 221;

Rule 228:

Rule 246:

Rule 248;

Rule 249:

Rule 252;

Rule 253; and

Rule 302.

Appendix 3

3.1.3 Samples

The following checksums were calculated under clause **Error! Reference source not found.**. The *MIRN* and *MIRN checksums* are provided to assist participants in checking their implementation of the *MIRN checksum* algorithm.

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