Metering Code Metrology Procedure and Mandatory Link Criteria

Introduction and Consultative Process Report

23rd June 2006

Produced by

Metering Services, Customer Solutions Branch Western Power Corporation

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1 Introduction

Western Power would like to submit the accompanying proposed Metering Code Metrology Procedure and Mandatory Link Criteria for approval by the ERA. This report demonstrates Western Power's compliance with its obligations under the Metering Code ("Code"), detailing the development process of the documents, and their reasonability. Consistency of the documents in relation to the Metering Code is demonstrated in the report.

Considerable care has been taken to ensure fairness to all parties and to avoid overly complicating the Metrology Procedures and Link Criteria. Western Power has aimed at keeping the minimum content required to satisfy the Code and has also tried to avoid unnecessarily deviation from the equivalent documentation within the National Electricity Market.

2 Compliance

The Code details three areas of compliance to be satisfied by Western Power Networks, as the network operator.

These are:

- Reporting
- Process
- Consistency in relation to the Code and the Code Objectives.

The following details how compliance has been met in these areas.

2.1 Reporting

The report satisfies compliance criteria by

- Identifying the process through which the proposed documents have been developed, including details of consultation with Code participants.
- Demonstrating how the Rules and Agreement are reasonable to all parties and consistent with the Code.
- Including copies of submissions received by the network operator from retailers.

2.2 Process

The process utilised in the development of the Rules and Agreement satisfies compliance criteria by

- Seeking, and responding to, submissions from retailers concerning the proposed Rules and Agreement. This is described in more detail in the list of meetings and attendees in *Appendix A* and the description of the process in *3, Development Process*.
- Showing regard to the submissions made by retailers. A summary of submissions and their associated responses are provided in *Appendix B*.

2.3 Consistency with Code and the Code Objectives

The Rules and Agreement comply with the Code by

- Being believed by all parties to be reasonable.
- Being consistent with the code, in particular:
 - o The provisions of clause 6.8, Requirements for a metrology procedure.

- o the provisions of clause 3.6, which allows the Network Operator to set out circumstances under which a communications link will be required for meter types 5 and 6.
- The provisions of Division 6.2, *Approval procedure for documents*.

3 **Development Process**

The proposed documents were developed by the following process:

service level agreement communication rules build pack.

Development of During the development of previous documents general discussions were made about the information the metrology procedure would require.

From January 06

Western Power produced an internal draft of the document. This used the Victorian Metrology Procedures as a template but combined these into a single document and made modifications in accordance with the Metering Code.

April 06

In April 2006 Western Power became aware of the new draft National Electricity Market (NEM) metrology procedures and refined the format of the internal draft to align better with these.

22 May 06

Following internal review it was determined that the document was now well enough developed and the related metering data systems were stable enough to engage the retailers in direct discussion. The document was therefore issued to Alinta, Perth Energy and Synergy on the 22nd May and comments invited. A series of review workshops were then scheduled with invites sent to the retailers and the ERA.

25 June 06

Issued to the IMO for comment and to ascertain if they wished to be part of the working group.

6 June 06

The initial workshop was held. This was attended by Synergy and Western Power.

8 June 06

A new version of the draft metrology procedure and issues log was circulated to all retailers and the ERA.

13 June 06

The next workshop was held and attended by the ERA, Synergy and Western Power.

19 June 06

A new version of the draft metrology procedure and issues log was circulated to all retailers and the ERA.

21 June 06

A further review meeting was held. This was attended by the ERA, Synergy and Horizon.

22 June 06

The mandatory link criteria and metering management plan were circulated for information and comment to all retailers

and the ERA

23 June 06

The documents have been formally submitted to the ERA.

There are a few open issues at the time of submission – though agreement had been reached in principle on the issues there was insufficient time to incorporate these and obtain retailer approval prior to the submission deadline. At the meeting on the 22^{nd} the ERA indicated that it would be possible to receive an amended version of the document before the deadline for Retailer comments. It was agreed therefore that Western Power would address the issues in the coming few weeks and submit an amended version against which the retailer's comments would be considered.

4 Metrology Procedure and Link Criteria Are Reasonable

The proposed Metrology Procedure and Link Criteria are considered to be fair due to:

- The documents have been developed in consultation with all market participants. Feedback has regularly been sought. Response to all feedback has been provided.
- Wherever possible the documents have remained faithful to the respective provisions of the code and related documents.
- The documents place each Participant on an equal footing.
- The documents cover all the requirements in the Code.
- The Metrology Procedure has similar content to those provided in other Australian electricity markets.
- The Link Criteria are in line with current practice.

5 Documents Consistent With The Code

These Rules and Agreement demonstrate consistency with the Code by:

- Defining the devices and methods used to:
 - ➤ Measure or otherwise determine the electricity produced or consumed at a metering point.
 - ➤ Convey the measured or determined information across communication links
 - > Process the information into energy data
 - > Provide access to the energy data.
- Specify the minimum requirements for meters and metering installations including
 - Accumulation meters
 - > Interfaces allowing the interval data to be downloaded
 - ➤ Direct connected meters for type 4-6
 - CTs and VTs
 - Programmable settings
- Specify the procedures for validating, substituting and estimating energy data
- Being consistent with the approved asset management plan
- Specifies the date at which the procedure takes effect, which is more than three months from the date of publication.

Appendix A – Metrology Meetings

The following table lists the meetings held to discuss the Metrology procedure, the attendees and the actions resulting from the meetings:

Key:

WP Western Power

Hor Horizon

Syn Synergy

Al Alinta

PE Perth Energy

ERA Economic Regulation Authority

AT	Andrew Thornbury	(Western Power)
DB	Derek Ball	(Western Power)
PH	Peter Howe	(Western Power)
CW	Colin Walker	(Western Power)
KN	Katrina Novacsek	(Synergy)
MB	Mark Baxter	(Synergy)
JL	Jenny Laidlaw	(Synergy)
GP	Geoff Pearson	(Horizon)
RM	Ray Miles	(Alinta)
LG	Lisa Gagiero	(Perth Energy)
NP	Nick Parkhurst	(ERA)

Date	Attendees	Actions
6 June 06	Present: AT, DB, PH, KN, MB, JL Apologies: CW, RM, LG, NP	Discussed the issues raised by Synergy (see issues log). Main items to be addressed were: • Provide context and overview of connection points, metering points etc. that is consistent with the various documents (Code, Access Agreements etc.)

	T-	
		Determine if a connection point can be both entry and exit point – this differs from past discussions Paguest for a table mapping MV00 statuses to flags.
		 Request for a table mapping MV90 statuses to flags issued by the metering system to understand when estimates and substitutes occur.
		Request to specify long after communications fail a manual read will occur and what happens
		Request for list of channels to be provided for each meter type and the NMI suffixes used
		• Can the retailer request and pay extra for an upgrade to a meter to include reactive energy measurement?
		 What type of meter would be offered as standard for TOU metering?
		Can any type of interval meter also be used as an accumulation meter?
		Retailers wish to have visibility of meter management plan
		 How is the decision reached as to which meter type is installed and who is involved in this process?
		 What happens when the load at a connection point varies over time? When is the meter changed and who decides?
		• Does a type 6 meter with interval data get treated as type 5 I nthe metering systems?
		Energy units smust always include VARh and Vah
		Can the three energy data channels be cross checked using a pythagorean relationship check?
		• If there is a problem with one channel Synergy would like the two related channels to be flagged as in error also.
		Requested that retailers be consulted over meter change out plans where class of meters failed audit
		Need to understand what Customer Class translates to in the HUB fields.
13 June 06	Present: AT, DB, KN, MB, JL, NP	Reviewed status of actions from first meeting. Main points added to issues log were:
	101D, JL, 101	Definitions and descriptive text still not correct

	Apologies: CW, RM, LG	 Synergy would like a process defined for the definition of parameters such as high/low bound checks How can check and revenue meters that are in series be
		distinguished - they share the same NMI and report same streams.
		Ensure change of meter type takes into account the contestability rules
		Default reading period should be monthly.
		 Need text to explain how weekly readings are issued and if this impacts the SLA
		Timings to be clarified for issuing of data
		• Dispute process requested to be 10 days to fit in with Retailer obligation to respond to ombudsman within 10 days
		Needed to be clear how 15 minute readings aggregated to half hourly
21 June 06	Present: AT, CW, KN, MB, JL, NP	Reviewed status of actions from first meeting. Main points added to issues log were:
	Apologies: DB, RM, LG	 Synergy did not feel the processing of status flags were correct – wished to see additional flags reported through (such as power outage and overflow).
		Discussed process going forward. It was understood that not all issues could be addressed in remaining time so document would be submitted to ERA without full resolution of these matters. Providing document can be resubmitted with these closed out within 20 WD then retailers can submit comments on revised document and ERA would take this into consideration.
1		

Appendix B– Issues Register

Ref	Section	Issue	Notes	Raised By	Raised On Action On	Status
	l General	Various typographical comments received	Being progressed	ERA	25/05/2006 Metering Services	Open
		from ERA				
2	2General	Can Western Power please advise when Type	CW: Type 7 will not be in MBS, as stated in	Synergy	6/06/2006 Metering Services	Open
		7 metering installations are expected to be	several previous forums and documentsAT: it			
		included in MBS? If Type 7 installations are	was agreed at meeting on the 16th that type 7			
		not going to be implemented in Release 2 then				
		can the document make this clear.	situation is covered by substitution method 74.			
			I.e. all parties are agreed that type 7 continues			
			to be calculated by the current method. I have			
			therefore added a note to that effect but left the			
			details of the other methods in place to retain			
			compliance with the code. Needs intenral			
			confirmation that it is ok to have in this format			
			given not Metering Services doing type 7			
			calculations			
	General	The relationships between the various	Added text to document. Now revised to bring	Synergy	6/06/2006	Closed
		metering entities mentioned (eg connection	closer to queuing and application policy - this			
		point, metering point, metering installation,	document attempts to clarify the relationships.			
		check metering installation, revenue metering	Reviewed at meeting - everyone happy now.			
		installation, meter, etc) is unclear – can we				
		please get a rundown of what these entities are				
		and how they relate to one another in the next				
		meeting. 16/6/06 Still not right				
4	4General	The definitions and usage of the terms	Changed section 3.4 to make clear the	Synergy	6/06/2006	Closed
		'estimate' and 'substitute' throughout the	circumstances where estiamtion and substitution			
		document are very confusing. In the meeting	occur			
		it was stated that an estimate reading is	CW: An estimate is a reference to a forward			
		provided when the network operator needs to	estimate. A substitute is a reading that is			
		provide a reading but has been unable to	provided when either a reading could not be			
		access the meter, while a substitute reading is	obtained by the NSRD or the reading obtained			

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
		provided when the meter has been accessed	failed validation and needs replacing. Revised				
		but either a reading could not be taken (due to					
		meter failure/damage) or else the reading					
		failed validation. If this is the case can the					
		documentation be reviewed an updated to					
		reflect this consistently. Also, can the					
		document specify what quality codes will be					
		provided for estimates, substitutes and the					
		'deemed actuals' mentioned in the metering					
		code. We need to be able to tell from an					
		estimated/substituted reading whether it is due					
		to a meter access problem (eg comms failure)					
		or a validation failure.					
5	General	This document needs to specify the quality	CW: Refer to NEM documentation. Metering	Synergy	6/06/2006	Metering Services	Open
		flags and reason codes that will be provided,	Services agree to include an appendix with this				
		and what they mean in this market.	information				
6	General	For interval readings, the document needs to	Added in the current design reference for	Synergy	6/06/2006	Metering Services	Open
		explain how the various MV90 interval and	informationMetering Services agree to include				
		channel statuses will be processed. This	an appendix with this information				
		includes identification of which statuses may					
		or will cause a substitute to be generated, and					
		confirmation of which statuses (we would					
		expect most) will be reported to retailers via					
		reason codes.					
7	General	The document needs to explain the rules	CW: Basic meter = Type 6, Interval capable,	Synergy	6/06/2006	Metering Services	Closed
		relating to meter installation types. For	but read as basic = Type 6, Interval read = Type				
		example, if a contestable exit point has an	5 an up, If interval and read by comms = Type				
		accumulation only meter, is this classed as a	4 and up (dependant on consumption, Last note				
		Type 6? If the meter is interval capable, but is	should refer to SLA				
		read as a basic meter, is this a Type 6 or a					
		Type 5? If a retailer requests enhanced					
		technology features for an exit point (eg					
		interval reading for a franchise residential site)					
		then is this a Type 6 or a Type 5? How (if at					

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
Kei	Section	all) does the metering installation type change with changes in customer load, both up and down? If a <34kW site is interval read and Metering decide to use remote comms, then does the Type change from 5 to 4? What are Synergy's metering/meter reading options for new/existing contestable sites, and how are these options reflected in the installation types	Notes	Raised By	Raiseu Oil	Action On	Status
		and the datastreams provided?					
8	General	The document needs to explain what datastreams (including suffix details) will be provided as a minimum for each installation type, and for both import and export.	CW: yes we need to provide. Metering Services agree to include an appendix with this information	Synergy	6/06/2006	Metering Services	Open
9	General	The document needs to make clear that estimation and substitution are carried out on readings for a datastream, eg for those substitution methods that use historical data the readings for the datastream are considered, not just those of the current physical meter.	CW: agree	Synergy	6/06/2006		Closed
10	1.3.1	Is this correct or will at least part of the procedure only come into effect with Release 2?	Changed the text here. Type 7 is the bit under discussion - added in clauses to state that everyone has elected to make the existing systems the meterin instalaltion/database and substitution to be performed under method 74. See 2.	Synergy	6/06/2006	Metering Services	Open
11	1.4.1	The Metering Code (incorrectly) defines a NMI as the unique identifier of a metering point, not the unique identifier of a connection point. Is the assumption here that the Metering Code will be corrected to match this document and others (eg the CTC)?	Yes	Synergy	6/06/2006		Closed
12	1.5.1		Done	Synergy	6/06/2006		Closed
13	1.8.3(b)	Refers to section 3.12 of the code – should be section 3.11	Done	Synergy	6/06/2006		Closed

Ref Section	Issue	Notes	Raised By	Raised On	Action On	Status
141.7.1	This list of metering installation components does not match the one given in the Metering Code. How can a connection point be a component of a metering installation when several metering installations can exist for a connection point?	Amended text	Synergy	6/06/2006		Closed
15	2'check metering installation' – definition does not make sense ('validation process and meeting.')	Now revised	Synergy		Metering Services	
16	2'connection point' – we have previously been advised that a connection point is either an entry point or an exit point, but never both.	Now revised	Synergy	6/06/2006	Metering Services	Closed
17	2'metering point' – definition is different from	Code is inconsistent – implies metering point associated with revenue meter but that check and revenue have individual metering points.	Synergy	6/06/2006		Closed
18	2'data stream' – definition is confusing – suggest 'Means a stream of data associated with a metering point, identified by a NMI and a NMI suffix. A metering point can have multiple data streams.'	Done	Synergy	6/06/2006		Closed
19	2Can you please provide a definition for 'meter reading period'	Done	Synergy	6/06/2006		Closed
20	2'interval energy data' – VAh and VARh readings would also be regarded as interval energy data.	Done	Synergy	6/06/2006		Closed
21	2'standing data' – should refer to a connection point rather than a metering installation	Done	Synergy	6/06/2006		Closed
223.1.1	Remove 'distribution' from the second line – the procedure should cover metering points directly connected to the transmission network.	Done	Synergy	6/06/2006		Closed
233.2.2(a)	Should also refer to reactive and apparent	Done	Synergy	6/06/2006		Closed

lef Section	Issue	Notes	Raised By	Raised On	Action On	Status
	energy					
243.5.3(b)	The time limits here should tie in with the minimum times specified to access/repair a meter, to ensure that readings are never lost.	Added text to document to clarify	Synergy	6/06/2006		Closed
253.7.2	Should be ' in Schedules 1, 2 and 3 respectively'	Done	Synergy	6/06/2006		Closed
263.8.2	Agreed in meeting to remove this section	Done	Synergy	6/06/2006		Closed
273.9.9	'within a reasonable period of time' is too vague – WP suggested this should be in accordance with the Asset Management Plan, of which details would be provided in the next meeting. Should also state that the replacement/recalibration program is carried out in consultation with the retailer(s).	Added requirement to issue proposed plan to retailers within period Now made it by consultation	Synergy	6/06/2006	Metering Services	Closed
284.3.1	Interval data is not always collected on a daily basis for types 1-4. Also, the document should mention that remote interval readings are often taken on a weekly basis.	Now allows other periods by agreement - position here remains the default for new installations. Spelt out that default is monthly and that thorugh info may be sent more frequently only charged as monthly	Synergy	6/06/2006		Closed
294.3.3(b)	Not clear what this means – would the interval data be collected regularly, on an ad-hoc by request basis, or what? What would be provided to retailers?		Synergy	6/06/2006		Closed
304.3.6	Can you please provide an example, and be specific about the cutoff time (eg 5pm, midnight or whatever it is)	Done	Synergy	6/06/2006		Closed
314.4.4 – 4.4	.5 The document needs to include a table listing the various interval/channel status codes generated by MV90 and what action will be taken in response to each. In some cases (eg pulse overflow or status register full) some action should always be taken.	CW: refer 6	Synergy	6/06/2006	Metering Services	Open
324.4.9	This clause is not always true and should be removed.	Done	Synergy	6/06/2006		Closed

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
33	4.4.10	Unclear what this clause means. Why do the substituted values need to be agreed with the code participant for 4.4.6(b) and 4.4.7(b) but not in other cases, and how is this actually done in practice?	Decided wasn't needed and removed	Synergy	6/06/2006		Closed
34	5.6.1	What periods given?	Ref to metering code added	Synergy	6/06/2006		Closed
35	8	Where is the equivalent of this section for types 1-4?		Synergy		Metering Services	Closed
36	8.22-8.23	These are repeats of sections 8.10 and 8.11	Removed	Synergy	6/06/2006		Closed
37	9	Introduction should refer to Type 6, not Type 8	Done	Synergy	6/06/2006		Closed
38	11.2	The validation of the VAh and VARh datastreams (where provided) should also be documented here.	Clauses now made generic	Synergy	6/06/2006		Closed
39	11.2	The document needs to specify how the 'rolling up' of channel and interval status for 15 minute intervals into 30 minute trading intervals is managed (eg precedence of status values where there is a mixture over a 30 minute period).	CW: Info in Interval Readings Functional Spec for Metron. Some specific provisions added	Synergy	6/06/2006	Metering Services	CLosed
40	11.2	Where there are Wh, VAh and VARh channels on a meter the validation should include a check that the readings for the three channels correlate (ie sqr(VAh) = sqr(Wh) + sqr(VARh), within some reasonable tolerance).	CW: check with Charlie	Synergy		Metering Services	Open
41	11.2.1(c)	How are these maximums determined/maintained, and are they available to retailers in the standing data?	Stored as IT system parameters – for discussion Process to determine how these will be set will be defined in separate forum.	Synergy	6/06/2006		Closed
42	11.2.1(d)	How in practice are the validation method and associated tolerances agreed with the retailer, and how does a retailer know what they are (ie are they available in standing data)?	discussion. Process to determine how these will	Synergy	6/06/2006		Closed

Ref S	Section	Issue	Notes	Raised By	Raised On		Status
43	,,	Need a specific list of MV90 interval and channel statuses here, along with the corresponding action (eg ignore, reject, investigate and possibly reject). Is 'Power failure' the same as 'Power outage'? If it is, the readings should not be rejected (although the status must be reported to retailers as a reason code).	CW: refer to 6	Synergy	6/06/2006	Metering Services	Open
44	11.3-11.4	Similar comments to those above for 11.2 apply		Synergy	6/06/2006	Metering Services	Closed
45	11.2-11.4	The document needs to be specific about what happens if a reading fails the min/max validation checks – the reading should be assessed by someone in these cases and not automatically rejected and substituted.	As per 3.4.5 – always manually reviewed	Synergy	6/06/2006		Closed
46			Done	Synergy	6/06/2006		Closed
47	12	See General comments above about 'estimation' and 'substitution' – the section needs to be reworded to use these terms consistently.	Done Text amended to make this clear	Synergy	, ,	Metering Services	
48		If a reading for one channel only of a 3 channel meter fails validation, then if possible the other two channels should be used to derive the required reading – where this is not possible the readings for all three channels should be estimated, to prevent the generation of spurious power factors. Similarly, where one channel of a two channel (Wh and VARh) meter fails validation or is missing, both channels should be estimated to prevent problems with power factors.		Synergy		Metering Services	Open
49		*	Done	Synergy	6/06/2006		Closed

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
		installations.					
50	12.3.4	Need to be more specific - there is no 'status flag' in the NEM12/NEM13 format. We would expect that different quality flags should be used for an estimate, a substitute and a deemed actual (if used), but if the difference can be derived from the reason codes then this is also OK.	CW: Refer to NEM documentation. See 5 and 6.	Synergy	6/06/2006	Metering Services	Open
51	12.4.2	Can you please provide an example to further explain this method.	Done	Synergy	6/06/2006		Closed
52	12.4.4, etc	Several references to 'network operator172', etc?	Done	Synergy	6/06/2006	Metering Services	Open
53	12.4.10	The last line in the table is incomplete	Done	Synergy	6/06/2006		Closed
54	12.4.14	Change 'in accordance with an approved metrology procedure' to 'by a method agreed to by the network operator and the affected code participant.'	Done	Synergy	6/06/2006		Closed
55	13.1.1(g)	Can't find clause 7.9.4(b) in the Metering Code	Copied by mistake from other document - deleted	Synergy	6/06/2006		Closed
56	13.3.1	This is Schedule 9, not 10	Done	Synergy	6/06/2006	Metering Services	Closed
	13.4.3(c)	What standing data field does 'Customer Class' relate to? How is it maintained, and how would a value of 'Other' be treated? Also, the numbering starts at (ii).	CW: Relates to property type Values the same as for property type	Synergy	6/06/2006	Metering Services	Closed
58	1.3.4	New section on the realtionship and definiotns of objects such as metering points is still not not correct. Some work on clarifying this was doen under the access agreemnt discussions.	New definitions are in the applications and queueing policy. Defintions and descriptions will be lifted from there.	Synergy		Metering Services	
59	General	Remove terminology "metering data" - only relevant in the NEM	Replaced everywhere with energy data	Synergy	, ,	Metering Services	
60	General	references to SWIS are wrong - this is a WA wide metrology procedure	Changed text to state MP applies where the Code applies. Ongoing discussion as to whether this procedure can apply to Horizon as it stands. Changed text to say applies "where WP is the	Synergy	13/06/2006	Metering Services	Closed

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
			metering service provider" which hopefully				
			covers whichever way the debate goes.				
61	2.7.9	Meter class reference is confusing. The test	Introduced concept of "testing class" being a	Synergy	13/06/2006	Metering Services	Closed
		applies to multiple types since the same	collection of meters of the same physical type				
		physical meter type may be used in several	treated as a single class for testing purposes.				
		types of metering installation. Rephrase to					
		make it clear that we are discussing physical					
		classes of meter.		_			
	2.7.10	Code Participant not Market Particiapnt	Revised text throughout	Synergy		Metering Services	
63	2.7.10	Make it clear the planning is in consultation	Changed to read "in consultation"	Synergy	13/06/2006	Metering Services	Closed
		with Retailer not just notifed to them		_			_
	3.3.1	Default must be monthly not daily	Changed to be monthly.	Synergy		Metering Services	
65	3.3	Still not clear what defaults will apply and	Defaults to be monthly but operator may send	Synergy	13/06/2006	Metering Services	Closed
		how weekly is addressed	data (for types 1-5) more frequently - however				
			still charged as monthly.	_			
66	3.3	Must make clear that once a meter is	Agreed - changing text to reflect this	Synergy	13/06/2006	Metering Services	Closed
		contestible it must always remain constestible					
67	3.3		Francisco - JP	Synergy	13/06/2006	Metering Services	Closed
		meters with interval capability in MBS. If this					
		is treated as type 6 still does it appear as type	practice this means it is treated as type 5 as far				
		6 in MBS or would it need to be type5 to be	as the retailer is concerned. But, for testing of				
		processed correctly?	the meter etc. it would still use the type 6				
			standards.	Company	42/06/0006	Matauine Camina	Olasad
68	3.3.4	Confirm if it is possible for Retailer to ask	This cannot happen. Text has now been updated	Synergy	13/06/2006	Metering Services	Ciosea
		type 6 to have interval readings and then					
		switch back to accumulation at later date -					
		other forums have indicated this wouldn't					
60	2 2 7	happen	Device	Synergy	13/06/2006	Metering Services	Closed
	3.3.7	change midnight to 23:59:59 for clarity.	Done	Synergy		Metering Services	
70.	3.3.9	The text does not exactly match the metering	Have stated defintions as per metering code	Dyricigy	13/00/2006	ivieteiliig Jeivilles	Cioseu
		code. Rather than repahrase suggest reference	*				
71	Dafinitia	out to clause in Code instead	items that are defined as per the metering code	Synergy	13/06/2006	Metering Services	Closed
/ 1	Definitions	Need to rephrase intorduction to make	Have stated defintions as per metering code	Sylicigy	13/00/2006	iviatalling 361 VICES	CIUSEU
		precedence with Code clearer	except those listed below and then removed				

Ref	Section	Issue	Notes	Raised By	Raised On	Action On	Status
			items that are defined as per the metering code.				
72	3.11	Retailers have 10 days to respond to	Done - text in this area has been revised	Synergy	13/06/2006	Metering Services	Closed
		ombudsman - need dispute process to reflect					
		this and guarantee response within this period					
73	11.2 et al.	There is an error in the formulae for validation	Revised text throughout	Western	13/06/2006	Metering Services	Closed
		of revenue meters vs check meters. System is		Power			
		actually comparing against the average of R					
		and C values not against the R value.					
74	Misc	Where check and revenue meter are in series	Standing data is different - NMI suffix also	Synergy	13/06/2006	Metering Services	Open
		and both are identical how can we determine	differs. E.g. check meter may be E1, Revenue				
		which is the revenue meter	F1. Proposed to include list of suffixes etc. in				
			build pack. Open issue around hanlding of				
			upgrades to small meters. Won't be issue for				
			new installations				
75	Misc	We want a process tro be put in place for	Not in scope of this document	Synergy	13/06/2006	Metering Services	Closed
		defining high and low bounds for validation					
		checking of meter readings				_	
76	General	It is hard to see how there will ever be any	Not quite - estiamtes can be produced for type 6	Synergy	13/06/2006	Metering Services	Closed
		estimates given the defintion and the IMO	meters to meet IMO settlement timetable.				
		timetable. Is this correct?	However for most meters most of the time there	:			
			are no estiamtes.	_			
77	3.3		J I	Synergy	15/06/2006	Metering Services	Closed
		not be changed without consultation with the	at differenct frequencies (e.g. weekly) than				
		retailer.	specified type 6 reading cycle won't change				
			without consultation				