

# CHANGE PACK – INITIAL CONSULTATION

## METROLOGY PROCEDURE:

### Part A National Electricity Market Version 5.3

### Part B: Metering Data Validation, Substitution and Estimation Procedure for Metering Types 1 – 7 Version 5.3

PREPARED FOR: Electricity  
PREPARED BY: Retail Markets and Metering  
VERSION NO: 1.0  
DATE: 19 September 2014

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# 1. Background

The NSW Roads and Maritime Services advised AEMO of its intention to operate its traffic signal installations that are fitted with LED lamps in a dimmed mode to reduce energy consumption.

As traffic signals in NSW are classified as market unmetered loads, the Metrology Procedure is to be updated to incorporate the methodology to facilitate the calculation of metering data for traffic signal operating in dimmed mode.

The recommended procedure changes under this consultation will become Metrology Procedure:

- Part A National Electricity Market Version 5.30,
- Part B: Metering Data Validation, Substitution and Estimation Procedure for Metering Types 1 – 7 Version 5.30.

## Scope of Changes

The proposed Metrology Procedure changes under consultation are:

- Introduction of a methodology for the production of calculated metering data for dimmed traffic signals,
- Introduction of Type 65 metering data substitution method, and
- Alignment of version numbering for Metrology Procedures Part A and Part B.

This consultation also improves clarity and corrects errors in the Metrology Procedure.

This document lists the proposed changes to the Metrology Procedure: Part A and Metrology Procedure: Part B. The changes proposed have been developed, discussed and agreed through consultation with the Metrology Reference Group (MRG). The changes under consultation have a proposed effective date of;

- 24 April 2015.

# 2. Purpose of this document

This document proposes changes to the Metrology Procedure: Part A and Metrology Procedure: Part B. The current procedures as of 1 March 2014 are documented in the ***Metrology Procedure: Part A Version 3.20*** and ***Metrology Procedure: Part B Version 5.20*** and are available on AEMO's website.

Updates proposed in this document will be incorporated in the ***Metrology Procedure: Part A Version 5.30***, and in the ***Metrology Procedure: Part B Version 5.30***.

Participants are requested to review the item under consultation and provide any comments in accordance with the Rules Consultation Procedures process, reflected in the Notice of Consultation issued by AEMO.

### 3. The Consultation Process

The process and date plan for the changes proposed in this document is as follows:

PROCESS	DATE
Closing date for submissions received in response to this Notice of First Stage of Rules Consultation	<i>24 October 2014</i>
Publication of the Draft Determination and Report and invitation to make submissions in response to the Draft Determination	Currently, proposed date is <i>20 November 2014</i>
Closing date for submissions received in response to the Draft Determination and Report	Currently, proposed date is <i>5 December 2014</i>
Publication of Final Determination	Currently, proposed date is <i>21 January 2015</i>
Effective Date	Currently, proposed for <i>24 April 2015</i>

## 4. Proposed Changes

This section lists the changes proposed by participants or by AEMO since the last completed consultation of the *Metrology Procedure*.

- *Section 4.1 covers the proposed changes to the Metrology Procedure: Part A Version 5.30*
- *Section 4.2 covers the proposed changes to the Metrology Procedure: Part B Version 5.30*

**NOTE:** All proposed additions to the Metrology Procedures are highlighted in red colour text and are underlined. All proposed deletions from the Metrology Procedures are highlighted in red strike through text. Example: ~~Reference.~~

### 4.1 Proposed Changes to the Metrology Procedure: Part A

Item	Description	Comments
1	<b>PROPOSED/ REQUESTED CHANGES</b>	
1.1	<b>Align version numbering</b> Align version number of Metrology Procedure: Part A with that for Part B to Version 5.30.	
1.2	<b>Clause 2.4.26</b> Correct clause reference to 2.2.24, i.e. change 2.4.23 to 2.4.24.	
1.3	<b>3.3.3(d)</b> Italicise <i>calculated metering data</i> .	
1.4	<b>Clause 3.9.4</b> Correct clause reference to 3.9.1, i.e. change 3.10.1 to 3.9.1.	
1.5	<b>Effective Date of the Metrology Procedure: Part A</b>  The proposed effective date of the Metrology Procedure: Part A is 24 April 2015.	

## 4.2 Proposed Changes to the Metrology Procedure: Part B

Item	Description	Comments
1	<b>PROPOSED/ REQUESTED CHANGES</b>	
1.1	<b>Type 65 Substitution</b> Table 1.8 Change “Type 65 EST” to “Type 65 SUB or EST”.	
1.2	<b>Type 65 Substitution</b> Clause 4.2.7 The <i>Metering Data Provider</i> may use type <del>65 substitution</del> or forward estimation <del>type 65</del> only when the <i>metering data</i> from the same, or similar, <i>meter</i> reading period last year or the <i>metering data</i> from the previous <i>meter</i> reading period is not available (i.e. when type 61 and type 62 <del>substitution</del> or forward estimation methods cannot be used).	
1.3	<b>Type 65 Substitution</b> 4.2.9(a) <i>Substitutions</i> may be type 61, 62, 63, 64, <del>65</del> , 66, 67 or 68.	
1.4	<b>Type 65 Substitution and replace “meter reading” with “energy consumption”</b> 4.3.5  <b>Type 65 – <del>Forward Estimation by ADL Method</del></b>  The <i>Metering Data Provider</i> must provide a <del>substitution</del> or forward estimation of the <del>meter reading</del> <i>energy consumption</i> in accordance with the following formula:  <b><del>Meter Reading</del> <i>Energy Consumption</i> = <i>Average Daily Load</i> * number of days required.</b>	
1.5	<b>Replace “meter reading” with “energy consumption”</b> 4.3.1	

Item	Description	Comments
	<p><b>Type 61 - Previous Year Method (Average Daily Consumption method)</b></p> <p>The Metering Data Provider must provide a <i>substitution</i> or forward estimation of the <del>meter reading</del> <i>energy consumption</i> as per the following formula:</p> <p style="text-align: center;"><b><del>Meter Reading</del> Energy Consumption = ADC<sub>LY</sub> * number of days required</b></p> <p style="text-align: center;"><b>where</b></p> <p>ADC<sub>LY</sub> = average daily consumption from the same or similar <i>meter</i> reading period last year.</p>	
1.6	<p><b>Replace “meter reading” with “energy consumption”</b></p> <p><b>5. 4.3.2 Type 62 - Previous Meter Reading Method (Average Daily Consumption Method)</b></p> <p>The Metering Data Provider must provide a <i>substitution</i> or forward estimation of the <del>meter reading</del> <i>energy consumption</i> as per the following formula:</p> <p style="text-align: center;"><b><del>Meter Reading</del> Energy Consumption = ADC<sub>PP</sub> * number of days required.</b></p> <p style="text-align: center;"><b>where</b></p> <p>ADC<sub>PP</sub> = average daily consumption from the previous <i>meter</i> reading period.</p>	
1.7	<p><b>Replace “meter reading” with “energy consumption”</b></p> <p><b>4.3.3</b></p> <p><b>Type 63 Customer Class Method</b></p> <p>The Metering Data Provider must provide a <i>substitution</i> or forward estimation of the <del>meter reading</del> <i>energy consumption</i> as per the</p>	

Item	Description	Comments
	<p>following formula:</p> <p style="text-align: center;"><b>Meter Reading Energy Consumption = ADC<sub>cc</sub> * number of days required</b></p> <p style="text-align: center;"><b>where</b></p> <p>ADC<sub>cc</sub> = average daily consumption for this customer class with the same type of usage.</p>	
1.8	<p><b>Correction</b> 14.3.3(a)(v) – change “shall” to “must” to be consistent with 14.4.3(a)(iii). If a device is shared with another <i>NMI</i>, the proportion of <i>load</i> that is agreed by affected <i>Registered Participants</i> to be attributable to that <i>NMI</i> (k). Each k factor will be less than 1. The sum of the k factors for a shared device across each respective <i>NMI</i> <del>shall</del> <b>must</b> be equal to 1,</p>	
1.9	<p><b>Correction</b> 14.3.3(b) – clarify apportioning of shared devices. Each device in the <i>inventory table</i> is a unique combination of physical hardware, time control classification and shared portion, for example, if a device is shared with another <i>NMI</i>, the <b>individual portion(s) of the</b> device(s) must be included in the <i>inventory table</i> as a separate device type.</p>	
1.10	<p><b>Correction</b> 14.3.5(b) – use <i>Rules</i> defined term <i>Eastern Standard Time</i>. The <i>responsible person</i> must ensure that the appropriate sunset times and sunrise times are obtained from the Australian Government Geoscience website (<a href="http://www.ga.gov.au/geodesy/astro/sunrise.jsp">www.ga.gov.au/geodesy/astro/sunrise.jsp</a>), based on the longitude and latitude of the relevant town as specified below, and <del>Australian Eastern Time</del> <b>Eastern Standard Time</b>:</p>	
1.11	<p><b>Correction</b> 14.3.5(b) – change “SP AusNet” to “AusNet Services” in latitude/longitude table to reflect entity name change.</p>	



Item	Description	Comments
1.12	<p><b>Correction</b>            14.3.4(b) – clarify apportioning of shared devices            Each device in the <i>inventory table</i> is a unique combination of physical hardware, time control classification and shared portion, for example, if a device is shared with another <i>NMI</i>, the <b>individual portion(s) of the</b> device(s) must be included in the <i>inventory table</i> as a separate device type.</p>	
1.13	<p><b>Insert new section 14.6 – Traffic signal dimming</b>            New section 14.6 added to Metrology Procedure: Part B facilitate the calculation of metering data for traffic signals operating in dimmed mode – refer to change marked version of Metrology procedure: Part B included with consultation document package.</p>	
1.4	<p><b>Effective Date of the Metrology Procedure: Part B</b>            The proposed effective date of the Metrology Procedure: Part B is 24 April 2015.</p> <p><b>Effective Date for Clause 14.6:</b>            Proposed effective date for new clause 14.6 is 1 July 2015.</p>	