CHANGE PACK – INITIAL CONSULTATION

MSATS PROCEDURES:

Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligations Version 4.0

Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIs Version 4.0

PREPARED FOR:	National Electricity Market
PREPARED BY:	Retail Markets and Metering
VERSION NO:	1.00
DATE:	15/05/2014

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1. Background

AEMO utilises a central system called Market Settlement and Transfer Solution (MSATS) to manage consumer transfers. MSATS also administers notifications of transactions to market participants and retains the data needed to facilitate wholesale settlement. The MSATS Procedures have been in operation since 1 January 2002 and have been revised a number of times to support ongoing business improvements.

The recommended process improvements under consultation will become MSATS Procedures:

- Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligations Version 4.0,
- Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIs Version 4.0.

Scope of Changes

The proposed changes under consultation relate to:

- **003 Removal of reference to settlements process**

  This change proposes to remove “Note 1” and the references to it regarding the codes for the AEMO settlements process. This NMI class is not used for reconciling and statement is not correct. “Note 2” has also been identified as obsolete and is also proposed to be removed.

- **004 MSATS Changes for NSW NECF**

  With the commencement of the National Energy Customer Framework in NSW on 1 July 2013, the NSW Government has requested changes to ensure that participants are compliant with the obligations. The NSW Government has provided a transitional to allow time for the procedure changes to occur.

  The changes include ensuring that the Customer Threshold Code is mandatory for National Metering Identifiers (NMI) in NSW.

- **007 Update Change Request end dates**

  This change proposes to update Change Request (CR) end dates. The reason for this change is that for any retrospective “Create” CR, it should not be possible for a participant to provide an Actual End Date, as the Actual End Date for a Create CR should always be high end date. If a participant wishes to retrospectively update information for a specific period in the past, they should use the appropriate “Change” CR.

- **008 Correction to Backdate a NMI Initiation Rules**

  Changes are required to the WIGS procedures for CR5001 Maintain NMI – Backdate a NMI to the Initiation Rules and LNSP Obligations. These changes are procedural

only, and were omitted from a previous consultation (CATS v2.5 and WIGS 1.2 in 2005/2006) when adding the ability for the LNSP to raise the CR5001.

- **005 Minor & Manifest Changes**

  In addition, some minor and manifest changes were identified and have been included in this consultation.

This document lists the proposed changes to the CATS Procedure, WIGS Procedure and associated MSATS configuration rules (if any). The proposed changes under consultation have a proposed effective date of 15 May 2014.

2. Purpose of this document

This document proposes changes to the MSATS Procedures. The current procedures as of 13 November 2013 are documented in the ***MSATS Procedures: CATS Procedure Version 3.8*** and ***WIGS Procedure Version 3.8*** and are available on AEMO's website.

AEMO is currently undertaking a consultation in relation to MSATS changes required for Tasmanian FRC. The final determination for ***MSATS Procedures: CATS Procedure Version 3.9*** and ***WIGS Procedure Version 3.9*** is scheduled for release on 20 December 2013. The final results of this consultation will be incorporated into the Draft Determination stage for the ***MSATS Procedures: CATS Procedure Version 4.0*** and ***WIGS Procedure Version 4.0*** consultation and will be noted in the relevant Change Pack. This consultation is available on AEMO's website.

Participants are requested to review the item/s under consultation and provide any comments in accordance with the National Electricity Rules consultation 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:

Action	Start Date	End Date	Notes
Issue Notice of Consultation	15/11/2013	15/11/2013	Complete
Participant submissions are to be provided to AEMO	23/12/2013	23/12/2013	within 25 business days after the Notice of Consultation is issued
AEMO considers all valid submissions and shall create the Draft Determination report (including the change marked MSATS Procedure version 4.0)	24/12/2013	22/01/2014	within 20 business days of the submission close date
AEMO Publish Draft Determination and Report	23/01/2014	23/01/2014	
Participant submissions are to be provided to AEMO	24/01/2014	10/02/2014	within 10 business days after the Draft Determination is published
AEMO considers all valid submissions and shall create the Final Determination report (including the change marked and clean versions of the MSATS Procedure version 4.0)	11/02/2014	03/03/2014	within 30 business days of the submission close date
AEMO Publish Final Determination	26/03/2014	26/03/2014	
Proposed Effective Date of the MSATS Procedures 4.0	15/05/2014	15/05/2014	

4. Proposed Changes

This section lists the changes proposed by participants or by AEMO since the last completed consultation *MSATS Procedures:*

- *Section 4.1 covers the proposed changes to the CATS Procedure Version 3.8*
- *Section 4.2 covers the proposed changes to the WIGS Procedure Version 3.8*

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

4.1 Proposed Changes to the CATS Procedure

Item	ID	Description	Category
		PROPOSED / REQUESTED CHANGES	
4.1.1	003	• *Remove reference in Notes section relating to reconciling for pool settlements:* **Clause 4.9 NMI Classification Codes** a) The NMI classification code enables the MSATS system to be informed of the nature of the flow of electricity at the connection point to which the NMI information applies, for example: generator, interconnector. b) The NMI classification codes 'LARGE' and 'SMALL' are used by these procedures. They are parameters that can be used when defining change reason codes, application time frames and objection rules. c) The NMI classification codes 'LARGE' and 'SMALL' are based on the total annual load of the NMI as per Table 4-E. d) The NMI classification codes 'LARGE' and 'SMALL' relate to a NMI and not to a site. e) NMI classification codes 'LARGE' and 'SMALL' allow the objection rules for small and large connection points to be different if required by a Jurisdiction. f) The valid NMI classification codes are specified in Table 4-E.	**Procedure only**

Item	ID	Description	Category
		Table 4-E – NMI classification codes	

Code	Description (4)
EPROFILE	External Profile Shape
GENERATR~~(1)~~	Generator
INTERCON~~(2)~~	Interconnector
LARGE ~~(3)~~ (1)	Victoria: >=160 MWh NSW: >=160 MWh ACT: >= 160 MWh QLD: >=100 MWh SA: >=160 MWh TAS: >=150MWh
SAMPLE	Sample Meter
SMALL~~(3)~~(1)	Victoria: <160 MWh NSW: <160 MWh ACT: < 160 MWh QLD: < 100 MWh SA: <160 MWh TAS: <150 MWh
WHOLESAL~~(1)~~	Wholesale Transmission Node Identifier

~~Note (1): These codes will be used in the AEMO settlements process for the purpose of reconciling pool settlements.~~

~~Note (2): This code will allow the removal of a hard coded rule in the AEMO settlements system.~~

Item	ID	Description	Category
		Note ~~(3)~~(1): These codes are used in the CATS Procedures. Note ~~(4)~~(2): See relevant jurisdictional regulation for full details.	
4.1.2	004	• *Remove NSW jurisdictional references as per NSW Government request:* **Clause 2.4 Local Network Service Provider** **The current LNSP must:** (e) Adopt the role of RP, MP and MDP as required by the National Electricity Rules and any derogation to the National Electricity Rules. (f) Allocate a NMI and NMI checksum for each connection point in accordance with the NMI Procedures and clause 7.3.1(e) of the National Electricity Rules. (g) Provide the average daily load to the current MDP at the time of the creation of a NMI. (h) Provide an update of the average daily load to the current MDP where the LNSP becomes aware of an expected change in the ADL of greater than 20%, other than by advice from the MDP. (i) ~~Except for NMIs in NSW1~~ ~~Uu~~pdate the Customer Threshold Code within five business days of becoming aware that the existing Customer Threshold Code is incorrect for NMIs with a Customer Classification Code of 'BUSINESS' and a NMI status of 'A' or 'D'. (j) Update or remove, as required, the Customer Threshold Code for a NMI within five business days of the Customer Classification Code being changed to 'RESIDENTIAL'. (k) Provide DLF codes and values to AEMO for the initial population of the DLF code in the MSATS system. (l) Update MSATS NMI status to "D" (De-energise) within five business days of the Connection Point being de-energised. The proposed change date shall be the day	**Procedure only**

Item	ID	Description	Category
		after the de-energisation for an interval metered connection point or the day of the de-energisation for a Basic metered connection point. . (m) Provide to AEMO by a date defined in the Rules a matching list of DLF codes and associated DLF values. (n) Update the MSATS NMI Status to 'A' (Active) within five business day of the connection point being re-energised. The proposed change date shall be the day the connection point is re-energised. (o) Update the MSATS NMI Status to X (Extinct) within five business days of becoming aware of the abolition of the Connection Point. The proposed change date shall be the day after the connection point was removed for an interval metered connection point or the day of the removal for a basic metered connection point. (p) Ensure that network tariff details for each NMI in its area are stored in the Network Tariff Code field at the Register ID level. (q) Subject to any applicable jurisdictional restrictions, use reasonable endeavours to provide NMI and NMI Checksum (other than when this detail is available in MSATS NMI Discovery) to the new FRMP within one business day of a NMI Discovery follow up request for this information from the new FRMP for premises identified in the request by reference to any of the following: o a unique meter identifier held by the Local Network Service Provider: or o a street address; or o the code (DPID) used by Australia Post to provide a unique identifier for postal addresses. i. If a computer search by the LNSP does not produce a unique match for the information provided by the retailer, the LNSP must provide the retailer with any computer matches achieved up to a maximum of 99. (r) Subject to any applicable jurisdictional restrictions, provide *NMI Standing Data* (other	

Item	ID	Description	Category
		than data available via MSATS NMI Discovery or the MSATS C7 report) to the new FRMP within two business days of a request from the new FRMP for premises identified in the request by reference to the NMI and Checksum for the premises. (s) Consider and action as necessary within two business days any requests from incorrectly assigned Participants to correct a Create NMI Change Request in MSATS. (t) Consider and action as necessary within two business days any requests from other CATS Participants to correct erroneous NMI standing data. (u) Provide, on request from a new FRMP who undertakes the role of Embedded Network Local Retailer, a set/range of NMIs and their checksum to that new FRMP for allocation by that FRMP to the child connection points of an embedded network within 2 business days of receiving the request. (v) Provide, on request from a current FRMP who undertakes the role of Embedded Network Local Retailer, one or more NMIs and their checksum to that current FRMP for allocation by that FRMP to the newly formed child connection points of an embedded network within 2 business days of receiving the request. **Removal of Footnote** ~~1 The Customer Threshold Code is not mandatory for NMIs in NSW. See also section 4.10.2.~~	
4.1.3	004	• *Remove NSW jurisdictional references as per NSW government request:* **Clause 4.10.2 Customer Threshold Code** (a) The Customer Threshold Code enables MSATS to be informed of the consumption for the consumer at a single connection point to which the NMI information applies. (b) The Customer Threshold Code is based on the LNSPs determination of the annualised consumption for the consumer at a single connection point to which the NMI information applies. (c) The Customer Threshold Code relates to a consumer's consumption at a NMI and is	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>separate to and additional to the NMI Classification Code.
(d) The Customer Threshold Code is mandatory for all NMIs with a NMI status of ‘A’ or ‘D’ and a Customer Classification Code of ‘BUSINESS’.
~~(e) The Customer Threshold Code is not mandatory for NMIs in NSW.~~
~~(f)~~(e) The valid Customer Threshold Codes are specified in Table 4-G.
Table 4-G – Customer Threshold Codes
<table>
<tr><th>Code</th><th>Description</th></tr>
<tr><td>LOW</td><td>Consumption is less than the lower consumption threshold as defined in the National Energy Retail Regulations, or in over-riding jurisdictional instruments.</td></tr>
<tr><td>MEDIUM</td><td>Consumption is equal to or greater than the lower consumption threshold, but less than the upper consumption threshold, as defined in the National Energy Retail Regulations, or in over-riding jurisdictional instruments.</td></tr>
<tr><td>HIGH</td><td>Consumption is equal to or greater than the upper consumption threshold as defined in the National Energy Retail Regulations, or in over-riding jurisdictional instruments.</td></tr>
</table></td><td></td></tr>
<tr><td>4.1.4</td><td>005</td><td>• Update definition of Datastream type to add consistency
Clause 44.4 NMI Discovery – NMI Standing Data Access Rules (stage 2)
(a) This clause 44.4 specifies the NMI standing data that is available to retailers and network service providers who do not have an explicit informed consent from a consumer.
(b) A Local Network Service Provider must:
1. Only carry out a stage 2 NMI Discovery on any NMI or NMI’s where they are assigned a role as the current LNSP.</td><td>Procedure only</td></tr>
</table>

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
2. Only perform stage 2 NMI search activity within its local area for the purpose of responding to a request from a retailer to assist in the resolution of a NMI data problem, or to perform quality checks of its data within the MSATS system.
(c) The NMI data access rules define:
1. Which role can initiate a request for NMI standing data.
2. Which standing data items will be returned when a request is submitted to the MSATS system.

(d) The NMI data access rules may be defined by Jurisdiction.

(e) The valid NMI standing data items that would be returned to a FRMP or LNSP in all Jurisdictions on a successful data access request are specified in Table 44-C.

Table 44-C – Common NMI standing data items returned to a FRMP or LNSP in all Jurisdictions for a stage 2 search / request
<table>
<tr><th>MSATS Name</th><th>Description of data items returned on a successful data access request</th></tr>
<tr><td>NMI</td><td>a 10 digit national metering identifier.</td></tr>
<tr><td>TNI Code</td><td>a 4 character code representing the transmission node identifier.</td></tr>
<tr><td>DLF Code</td><td>a 4 character code representing the distribution loss factor.</td></tr>
<tr><td>NMI Classification Code</td><td>refer to clause 4.9.</td></tr>
<tr><td>Embedded Network Parent</td><td>a 10 character code representing the name of the parent for any associated embedded network.</td></tr>
<tr><td>Embedded Network Child</td><td>a 10 character code representing the name of the child for any associated embedded network.</td></tr>
<tr><td>Meter Serial Number</td><td>the meter serial number of the meter associated with the next scheduled read date and network tariff code details provided (see items below).</td></tr>
<tr><td>Next Scheduled Read Date</td><td>the next scheduled read date in date format.</td></tr>
<tr><td>Register ID</td><td>the register id of the register that the network tariff code and network tariff code additional information</td></tr>
</table>
</td><td></td></tr>
</table>

Item	ID	Description		Category
			refers to.	
			Network Tariff Code	a 10 character code representing the network tariff.
			Network Tariff Code Additional Information	Additional text to supplement the network tariff code if this is a complex network tariff code.
			Feeder Class	A15 character long field in varchar format for logical grouping of NMIs based on the DNSPs distribution feeder.
			Customer Classification Code	A code that defines the consumer class as defined in the National Energy Retail Regulations, or in over-riding jurisdictional instruments.
			Customer Threshold Code	A code that defines the consumption threshold as defined in the National Energy Retail Regulations, or in over-riding jurisdictional instruments.
			LNSP	an 8 character code representing the identity of the Local Network Service Provider.
			MDP	an 8 character code representing the identity of the Metering Data Provider (Category D).
			MPB	an 8 character code representing the identity of the Metering Provider (Category B).
			MPC	an 8 character code representing the identity of the Metering Data Provider (Category C).
			Address	This includes all address fields, which comprise DPID, flat number, flat type, floor number, floor type, house number, house number suffix, location description, lot number, street name, street suffix, street type, unstructured address1, unstructured address2, unstructured address3, postcode, locality, and state.
			Jurisdiction	A 3 character code that identifies the jurisdiction in which the NMI is located.
			NMI Status Code	refer to clause 4.11.
			Suffix	a 2 character code representing the NMI datastream.
			Profile Name	a 10 character code representing the name of the profile
			Metering Installation Code	refer to clause 4.12.

Item	ID	Description			Category
			Average Daily Load	NUMBER (10). The electrical energy delivered through a connection point or metering point over an extended period normalised to a “per day” basis (kWh).	
			Meter Status	A single character code to denote the status of the meter within the NEM.	
			Register Status	A single character lookup code to indicate if register is active.	
			Stream Status Code	Code used to indicate the status of the suffix. This value must correspond to a valid Stream Status Code in the MSATS_Codes_Values_table.	
			Datastream Type	~~Indicates the type of data that the datastream will report includes interval and basic. This value must be ‘I’ (interval), ‘C’ (basic) or ‘P’ (profile).~~ Refer to ‘Standing data for MSATS’ document for further details.	
			Unit of Measure	VARCHAR2(5) Code to identify the Unit of Measure (UOM) for data held in this register.	
			Time Of Day	VARCHAR2(10) Industry developed Codes to identify the time validity of register contents.	
			Multiplier	NUMBER (13,5) Multiplier required to take a register value and turn it into a value representing billable energy.	
			Dial Format	NUMBER (4,2) Describes the register display format. First number is the number of digits to the left of the decimal place, and the second number is the number of digits to the right of the decimal place.	
			Controlled Load	Indicates whether the energy recorded by this register is created under a controlled load regime. Controlled Load field will have “No” if register does not relate to a controlled load, it should contain a description of the controlled load regime.	
			ActCumind (Actual/Cumulative Indicator)	Actual/Subtractive Indicator. Actual implies volume of energy actually metered between two dates. Cumulative indicates two meter	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>readings are required to determine the consumption between those two read dates. For an interval meter, ActCumInd is normally = A.</td></tr>
<tr><td>MeterRead Type</td><td>Code indicating how the meter is read.
Refer to ‘Standing data for MSATS’ document for further details.</td></tr>
</table>
</td><td></td></tr>
<tr><td>4.1.5</td><td>007</td><td>
Update retrospective CRs 3001 & 3003 to remove ability to provide ‘Actual end date’:
Clause 16 Maintain Metering – Create Metering Installation Details – Small OR LARGE

16.1 Application [3000 3001 3003]
This procedure applies to the following change reason codes:

3000 – Create Metering Installation Details
This is the situation where the current MPB establishes the initial set of information in the MSATS system in regard to the metering installation details, and there is no associated meter removal for the NMI for the same effective date. The date at which the information will apply would be a prospective date.
3001 – Create Metering Installation Details – Retrospective
This is the situation where the current MPB establishes the initial set of information in the MSATS system in regard to the metering installation details, and there is no associated meter removal for the NMI for the same effective date. The date at which the information will apply would be a retrospective date.
3003 – Create Meter Details - Retrospective (Tier 1 only)
This is the situation where the current MPB establishes the initial set of information in the MSATS system in regard to the metering installation details, and there is no associated meter removal for the NMI for the same effective date for a connection point that is a tier 1 connection point. The date at which the information will apply would be a retrospective date.
This change request is related to change request 3001 but has different notification

</td><td>Procedure only</td></tr>
</table>

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
rules.
16.2 Conditions Precedent
(a) The NMI exists in the MSATS system.
(b) The metering installation details do not exist in MSATS.
(c) The NMI classification code is SMALL or LARGE.
(d) There are no objections allowed for this change reason code and NMI classification.
(e) Chapter 0 relates only to change reason codes 3000, 3001 and 3003.
(f) In order to use change reason code 3003, the NMI must have been a tier 1 NMI for all its life.
16.3 Initiation Rules
(a) A current MPB may initiate a change request to create metering installation records in the MSATS system in accordance with clause 0.
(b) The current MPB must use one of the following change reason codes 3000, 3001 or 3003 to establish an initial change request.
16.4 MPB Obligations
The current MPB must:
(a) Obtain the NMI checksum from an approved source.
(b) Confirm that the NMI is a valid NMI for the connection point prior to the initiation of a change request.
(c) Populate an initial change request with the following information:
<table>
<tr><td>Change reason code</td><td>Participant transaction ID</td><td>NMI and NMI checksum</td></tr>
<tr><td>CATS participant ID</td><td>Proposed change date</td><td>Meter serial ID (at least one)</td></tr>
<tr><td>Metering installation type</td><td>Meter status (for each</td><td>Register ID (at least one</td></tr>
</table>
</td><td></td></tr>
</table>

Item	ID	Description	Category

(for each meter)	**meter)**	**for each meter)**
Register ID status (for each register ID)	**Actual / cumulative indicator (for each register ID)**	**Controlled load indicator (for each register ID)**
Dial format (for each register ID)	**Multiplier value (for each register ID)**	**Time of day code (for each register ID)**
Unit of measure code (for each register ID)		

The current MPB may:

d) Populate the initial change request with the following information for each meter:

Additional site information	**Network tariff code (for each register ID)**	**Next scheduled read date**
Meter location	**Meter hazard**	**Meter route**
Meter use	**Meter point**	**Meter manufacturer**
Meter model	**Transformer location**	**Transformer type**
Transformer ratio	**Meter constant**	**Last test date**
Next test date	**Test result accuracy**	**Test result notes**
Test performed by	**Measurement type**	**Meter program**
Meter read type	**Remote phone number**	**Communication equipment type**
Communication protocol	**Data conversion arrangements**	**Data validation arrangements**
Estimation instructions	**Asset management plan details**	**Calibration tables (details of any calibration factors programmed into the meter)**
Password details (the read and time set	**Test and calibration program details**	**User access rights details (i.e. details of any end-**

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>passwords only, separated by a space; the write password is not to be recorded in MSATS)</td><td></td><td>use customer access to the metering installation such as pulse outputs)</td></tr>
</table>
e) Populate the initial change request with the following information for each register:
<table>
<tr><td>Network tariff code additional information</td><td>MDM contributory suffix (this can also be supplied by the MDP)</td><td>Demand value 1, if the network tariff charge includes a demand component</td></tr>
<tr><td>Demand value 2, if the network tariff charge includes a second demand component</td><td></td><td></td></tr>
</table>
~~f) For change reason codes that are retrospective, populate the initial change request with the following information:~~
<table>
<tr><td>~~Actual end date~~</td><td></td><td></td></tr>
</table>
</td><td></td></tr>
<tr><td>4.1.6</td><td>007</td><td>
Update retrospective CR 3005 to remove ability to provide ‘Actual end date’:
Clause 17 Maintain Metering – EXCHANGE OF METERING information – SMALL or Large
17.1 Application [3004 3005]
This procedure applies to the following change reason codes:
3004 – Exchange of Metering information
This is the situation where the current MPB is required to provide a change to the information in the MSATS system in regard to the metering installation details. The change will include the removal of at least one existing meter and the installation of at least one new meter. A minimum set of metering installation details for the NMI shall exist upon completion of the Change Request. The date at which the
</td><td>Procedure only</td></tr>
</table>

Item	ID	Description	Category
		information will apply would be a prospective date. • **3005 – Exchange of Metering information – Retrospective** This is the situation where the current MPB is required to provide a change to the information in the MSATS system in regard to the metering installation details. The change will include the removal of at least one existing meter and the installation of at least one new meter. A minimum set of metering installation details for the NMI shall exist upon completion of the Change Request. The date at which the information will apply would be a retrospective date. **17.2 Conditions Precedent** a) The NMI exists in the MSATS system. b) The metering installation details exist in MSATS. c) At least one meter is removed and one meter is created in each change request. d) The NMI classification code is SMALL or LARGE. e) There are no objections allowed for this change reason code and NMI classification. f) The meter serial ID for the installed meter shall be different to the existing meter serial ID for the same NMI. g) Chapter 17 relates only to change reason codes 3004 and 3005. **17.3 Initiation Rules** a) A current MPB may initiate a change request to change and create metering installation records in the MSATS system in accordance with clause 0 b) The current MPB must use one of the following change reason codes 3004 or 3005 to establish an initial change request. c) A minimum set of metering installation details for the NMI shall exist upon completion of the change request. **17.4 MPB obligations**	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>

The current MPB must:

a) Obtain the NMI checksum from an approved source.

b) Confirm that the NMI is a valid NMI for the connection point prior to the initiation of a change request.

c) Populate the change request with the following information:

<table>
<tr><td>Change reason code</td><td>Participant transaction ID</td><td>CATS participant ID</td></tr>
<tr><td>Proposed change date</td><td>NMI</td><td>NMI checksum</td></tr>
<tr><td>Meter serial ID (for each meter)</td><td></td><td></td></tr>
</table>

d) For all meters associated to the NMI, where the Meter Status Code is to be “C” populate the change request with the following information *(where this information does not currently exist in MSATS):*

<table>
<tr><td>Meter status (for each meter)</td><td>Metering installation type (for each meter)</td><td></td></tr>
</table>

e) For all meters associated to the NMI, where the Register ID Status is to be “C” populate the change request with the following information *(where this information does not currently exist in MSATS):*

<table>
<tr><td>Register ID</td><td>Unit of measure code (for each register ID)</td><td>Multiplier value (for each register ID)</td></tr>
<tr><td>Time of day code (for each register ID)</td><td>Dial format (for each register ID)</td><td>Register ID status (for each register ID)</td></tr>
<tr><td>Controlled load indicator (for each register ID)</td><td>Actual / cumulative indicator (for each register ID)</td><td></td></tr>
</table>

The current MPB may:

</td><td></td></tr>
</table>

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>f) Populate the change request with the following information for each meter:
<table>
<tr><td>Additional site information</td><td>Next scheduled read date</td><td>Meter location</td></tr>
<tr><td>Meter hazard</td><td>Meter route</td><td>Meter use</td></tr>
<tr><td>Meter point</td><td>Meter manufacturer</td><td>Meter model</td></tr>
<tr><td>Transformer location</td><td>Transformer type</td><td>Transformer ratio</td></tr>
<tr><td>Meter constant</td><td>Last test date</td><td>Next test date</td></tr>
<tr><td>Test result accuracy</td><td>Test result notes</td><td>Test performed by</td></tr>
<tr><td>Measurement type</td><td>Meter program</td><td>Meter read type</td></tr>
<tr><td>Remote phone number</td><td>Communication equipment type</td><td>Communication protocol</td></tr>
<tr><td>Data conversion arrangements</td><td>Data validation arrangements</td><td>Estimation instructions</td></tr>
<tr><td>Asset management plan details</td><td>Calibration tables (details of any calibration factors programmed into the meter)</td><td>Password details (the read and time set passwords only, separated by a space; the write password is not to be recorded in MSATS)</td></tr>
<tr><td>Test and calibration program details</td><td>User access rights details (i.e. details of any end-use customer access to the metering installation such as pulse outputs)</td><td>MDM contributory suffix (this can also be supplied by the MDP)</td></tr>
<tr><td>Network tariff code additional information</td><td>Demand value 1, if the network tariff charge includes a demand component</td><td>Demand value 2, if the network tariff charge includes a second demand component</td></tr>
<tr><td>Network Tariff Code (for each register ID)</td><td></td><td></td></tr>
</table></td><td></td></tr>
</table>

Item	ID	Description	Category
		~~g) For change reason codes that are retrospective, populate the initial change request with:~~ ~~Actual end date~~ | | | ~~(h)~~(g) Where changes to Network Tariff information are required: 1. Check that the network tariff code in the MSATS system is correct and, if it is not, update it to have the correct value. 2. Change the network tariff code in the MSATS system to ensure that the current information provided in the MSATS system is the latest information available from the current LNSP.	
4.1.7	007	• *Update retrospective CRs 4001 & 4003 to remove ability to provide 'Actual end date':* **Clause 22 Maintain Datastream – Create MDM Datastream –Small or large** **22.1 Application [4000 4001 4003]** This procedure applies to the following change reason codes: • **4000 – Create MDM Datastream Details** This is the situation where the current MDP establishes the initial set of information in the MSATS system in regard to the MDM datastream details, and there is no associated datastream status change to inactive for the NMI for the same effective date. The date at which the information will apply would be a prospective date. • **4001 – Create MDM Datastream Details - Retrospective** This is the situation where the current MDP establishes the initial set of information in the MSATS system in regard to the MDM datastream details, and there is no associated datastream status change to inactive for the NMI for the same effective date. The date at which the information will apply would be a retrospective date. • **4003 – Create MDM Datastream - Retrospective (Tier 1 only)**	**Procedure Only**

Item	ID	Description	Category
		This is the situation where the current MDP establishes the initial set of information in the MSATS system in regard to the MDM datastream details for a connection point that is a tier 1 connection point. The date at which the information will apply would be a retrospective date. This change request is related to change request 4001 but has different notification rules. **22.2 Conditions Precedent** a) The NMI exists in the MSATS system. b) The MDM Datastream details do not exist in MSATS c) The NMI classification code is SMALL or LARGE. d) There are no objections allowed for this change reason code and NMI classification. e) Chapter 22 relates only to change reason codes 4000, 4001 and 4003. f) In order to use change reason code 4003, the NMI must have been a tier 1 NMI for all its life. **22.3 Initiation Rules** a) A current MDP may initiate a change request to create an MDM datastream in the MSATS system in accordance with clause 22.4. b) The current MDP must use one of the following change reason codes 4000, 4001 or 4003 to establish an initial change request. **22.4 MDP Obligations** **The current MDP must:** a) Obtain the NMI checksum from an approved source. b) Confirm that the NMI is a valid NMI for the connection point prior to the initiation of a change request.	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
c) Populate an initial change request with the following information:
<table>
<tr><td>Change reason code</td><td>Participant transaction ID</td><td>NMI and NMI checksum</td></tr>
<tr><td>CATS participant ID</td><td>Proposed change date</td><td>NMI suffix (at least one)</td></tr>
<tr><td>Datastream type (for each suffix)</td><td>Profile name (for each suffix)</td><td>Daily average load (for each suffix)</td></tr>
<tr><td>Datastream status code (for each suffix)</td><td></td><td></td></tr>
</table>
d) Obtain the average daily load from the LNSP if this value is not otherwise provided by the new FRMP.
~~The current MDP may:~~
~~e) For change reason codes that are retrospective populate the initial change request with the following information:~~
<table>
<tr><td>~~Actual end date~~</td><td></td><td></td></tr>
</table>
</td><td></td></tr>
<tr><td>4.1.8</td><td>007</td><td>
• Update retrospective CR 4005 to remove ability to provide ‘Actual end date’:
Clause 23 Maintain Datastream - Exchange of Datastream Information SMALL or Large
23.1 Application [4004 4005]
This procedure applies to the following change reason codes:
• 4004 – Exchange of Datastream Information
This is the situation where the current MDP is required to provide a change to the information in the MSATS system in regard to the MDM datastream details. The change will include at least one datastream status change to inactive and the creation of at least one new datastream. A minimum set of MDM datastream details for the NMI shall exist upon completion of the Change Request. The date at which the information will apply would be a prospective date.
</td><td>Procedure only</td></tr>
</table>

Item	ID	Description	Category
		• **4005 – Exchange of Datastream Information - Retrospective** This is the situation where the current MDP is required to provide a change to the information in the MSATS system in regard to the MDM datastream details. The change will include at least one datastream status change to inactive and the creation of at least one new datastream. A minimum set of MDM datastream details for the NMI shall exist upon completion of the Change Request. The date at which the information will apply would be a retrospective date. **23.2 Conditions Precedent** a) The NMI exists in the MSATS system. b) The metering installation details exist in MSATS. c) The NMI classification code is SMALL or LARGE. d) Chapter 23 relates only to change reason codes 4004 and 4005. **23.3 Initiation Rules** a) A current MDP may initiate a change request to exchange datastream records in the MSATS system in accordance with clause 0. b) The current MDP must use one of the following change reason codes 4004 or 4005 to establish an initial change request. c) There are no objections allowed for this change reason code and NMI classification. d) A minimum set of MDM datastream details for the NMI shall exist upon completion of the change request. **23.4 MDP obligations** **The current MDP must:** a) Obtain the NMI checksum from an approved source. b) Confirm that the NMI is a valid NMI for the connection point prior to the initiation of a change request.	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
c) Populate the change request with the following information:
<table>
<tr><td>Change reason code</td><td>Participant transaction ID</td><td>CATS participant ID</td></tr>
<tr><td>Proposed change date</td><td>NMI</td><td>NMI checksum</td></tr>
</table>
d) For all datastreams associated to the NMI, where the Datastream Status Code is to be “A” populate the change request with the following information: (where this information does not currently exist in MSATS);
<table>
<tr><td>NMI suffix (at least one)</td><td>Datastream type (for each suffix)</td><td>Profile name (for each suffix)</td></tr>
<tr><td>Daily average load (for each suffix)</td><td>Data stream status code (for each suffix)</td><td></td></tr>
</table>
The current MDP may:
e) Populate the change request with the following information:
<table>
<tr><td>Meter serial ID (for each meter)</td><td>Register ID (for each register ID)</td><td>MDM contributory suffix (for each register ID)</td></tr>
</table>
~~f) For change reason codes that are retrospective, populate the initial change request with:~~
<table>
<tr><td>~~Actual end date~~</td><td></td><td></td></tr>
</table>
</td><td></td></tr>
<tr><td>4.1.9</td><td>N/A</td><td>
Effective Date of the CATS Procedures
The proposed effective date of the CATS Procedures is 15 May 2014.

Procedure Cover Page:
Effective Date: 15 May 2014

The document version history will also be updated to reflect these changes.
</td><td>Procedure only</td></tr>
</table>

4.2 Proposed Changes to the WIGS Procedure

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>PROPOSED / REQUESTED CHANGES</td><td></td></tr>
<tr><td>4.2.1</td><td>003</td><td>
Remove reference in Notes section relating to reconciling for pool settlements:
1.11 NMI Classification Codes
(a) The NMI classification code enables the MSATS system to be informed of the nature of the flow of electricity at the connection point to which the NMI information applies.
(b) The NMI classification codes WHOLESAL, INTERCON, GENERATR, EPROFILE and SAMPLE are used by these procedures. They are parameters that can be used when defining change reason codes, application time frames and objection rules.
(c) The NMI classification codes are based on the total annual load of the NMI as per Table 1-B.
(d) The NMI classification codes ‘WHOLESAL’, ‘INTERCON’, ‘GENERATR’ and ‘SAMPLE’ relate to a NMI and not to a site.
The valid NMI classification codes are specified in Table 1-B.
Table 1-B– NMI classification codes
<table>
<tr><th>Code</th><th>Description(4)</th></tr>
<tr><td>EPROFILE~~(3)~~(1)</td><td>External Profile Shape</td></tr>
<tr><td>GENERATR(1) ~~(3)~~</td><td>Generator</td></tr>
<tr><td>INTERCON~~(2)~~(1) ~~(3)~~</td><td>Interconnector</td></tr>
<tr><td>LARGE</td><td>Victoria: >=160 MWh
NSW: >=160 MWh
ACT: >= 160 MWh
QLD: >=100 MWh
SA: >=160 MWh
TAS: >=150 MWh</td></tr>
</table>
</td><td>Procedure only</td></tr>
</table>

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>SAMPLE~~(3)~~(1)</td><td>Sample Meter</td></tr>
<tr><td>SMALL</td><td>Victoria: <160 MWh
NSW: <160 MWh
ACT: < 160 MWh
QLD: < 100MWh
SA: <160 MWh
TAS: <150 MWh</td></tr>
<tr><td>WHOLESAL(1) ~~(3)~~</td><td>Wholesale Transmission Node Identifier</td></tr>
</table>
~~Note (1): these codes will be used in the AEMO settlements process for the purpose of reconciling pool settlements.~~
~~Note (2): this code will allow the removal of a hard coded rule in the AEMO settlements system.~~
Note ~~(3)~~ (1): these codes are used in the WIGS Procedures.
Note ~~(4)~~ (2): see relevant jurisdictional regulation for full details.
</td><td></td></tr>
<tr><td>4.2.2</td><td>005</td><td>
• Updates to reflect correct reference:
1.2.2 Application
a) The WIGS Procedures apply to Registered Participants in accordance with the Rules. They form part of the MSATS Procedures mentioned in Rules clause 7.2.8.
b) The procedures apply to Service Providers through the AEMO accreditation process that has been established in accordance with the Rules.
c) The WIGS Procedure document applies to NMI Class of Wholesale, Interconnector, Generator, External Profile Shape & Sample Meter. Refer to Chapters 1 to 5 and ~~42~~ 44 of the CATS procedure document for general chapters that relate to both CATS (Small & Large) and WIGS NMIs.
</td><td>Procedure Only</td></tr>
</table>

Item	ID	Description	Category
4.2.3	008	• *Update 15.3 Initiation Rules and 15.4 LNSP Obligations to reflect application, where the LNSP is allowed to initiate the CR 5001:* **15. Maintain NMI – backdate a NMI** **15.1 Application [5001]** This procedure applies to the following change reason code: • **5001 – Backdate NMI Start Date** This is the situation where AEMO, on request from an LNSP, or the LNSP establishes the initial set of information in the MSATS system in regard to a connection point. The date at which the information will apply would be a retrospective date. **15.2 Conditions Precedent** a) The NMI exists in the MSATS system. b) The NMI classification is wholesale, interconnector, generator or sample. c) Chapter 0 relates only to change reason code 5001. **15.3 Initiation Rules** a) AEMO or the LNSP may initiate a change request to backdate a NMI record in the MSATS system in accordance with clause 15.5. b) AEMO or the LNSP must use change reason code 5001 to establish an initial change request. **15.4 LNSP Obligations** **The new LNSP (which must be the same party as the current LNSP for the period where the NMI exists in MSATS) must:** a) ~~Provide AEMO with~~ Obtain the NMI checksum~~, which it has obtained~~ from an approved source. b) Confirm that the NMI is still a valid NMI for the connection point prior to the initiation of a change request. c) ~~Provide AEMO~~ Populate an initial change request with values for the following standing data items:	

<table>
<tr><th>Item</th><th>ID</th><th>Description</th><th>Category</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Participant transaction ID</td><td>NMI and NMI checksum</td><td>CATS participant ID</td></tr>
<tr><td>Proposed change date</td><td>Actual end date (which should be the day prior to the day that the existing NMI master record starts on)</td><td>TNI code</td></tr>
<tr><td>DLF code</td><td>NMI classification code</td><td>Jurisdiction code</td></tr>
<tr><td>FRMP</td><td>LR</td><td>ROLR</td></tr>
<tr><td>RP</td><td>MDP</td><td>MPB</td></tr>
<tr><td>MPC</td><td>LNSP which must be themselves</td><td>NMI status code</td></tr>
<tr><td>Locality</td><td>State</td><td>Postcode</td></tr>
</table>
d) ~~Provide AEMO~~ Populate the initial change request with values for the following address fields (as applicable):
EITHER
<table>
<tr><td>DPID</td><td>Flat number</td><td>Flat type</td></tr>
<tr><td>Floor number</td><td>Floor type</td><td>House number</td></tr>
<tr><td>House number suffix</td><td>Location descriptor</td><td>Lot number</td></tr>
<tr><td>Street name</td><td>Street suffix</td><td>Street type</td></tr>
</table>
OR
<table>
<tr><td>Unstructured address 1</td><td>Unstructured address 2</td><td>Unstructured address 3</td></tr>
</table>
The new LNSP may:
e) ~~Provide AEMO~~ Populate the initial change request with the following information:
<table>
<tr><td>Embedded network parent name</td><td>Building name</td><td></td></tr>
</table>
</td><td></td></tr>
</table>

Item	ID	Description	Category
4.2.4	N/A	**Effective Date of the WIGS Procedures** The proposed effective date of the WIGS Procedures is 15 May 2014. **Procedure Cover Page:** Effective Date: 15 May 2014 The document version history will also be updated to reflect these changes.	**Procedure only**