

Market Operator

Generator Offer Procedure

Content

1. Purpose	1
2. Scope	1
3. Roles and Responsibilities	3
4. Definitions	3
5. Principles	5
5. References.....	7
6. Attachments.....	7
8. Records	7
9. Review	7
10. Document History.....	7
Attachment A: Generator Offer Template.....	8
Attachment B: Gate Closure Details.....	16

1. Purpose

This procedure specifies the principles and key processes for the preparation and submission ~~(before and after gate closure)~~ of *Generator Offers*, ~~including their role as a Revised Offer~~, to the Power System Controller when operating in the *I-NTEM*.

2. Scope

~~2.1~~ The procedure only applies to the *I-NTEM*.

~~2.2~~ This procedure is prepared under the authority of Section 4.4B(e) of the System Control Technical Code.

~~2.12.3~~ This ~~document procedure~~ applies to any *settlements* statements prepared and issued by the *Market Operator* and to any *embedded generator* subject to dispatch by System Control even if not subject to *I-NTEM* settlement. ~~The procedure only applies to the *I-NTEM*.~~

~~2.2~~ The procedure is prepared under the authority of Section 4.4B(e) of the System Control Technical Code.

~~2.32.4~~ The procedure covers those parts of the commitment and dispatch process¹ that involve the submission of *Generator Offers* ('Offers') to the System Controller. The receipt of Offers by the System Controller forms an initial part of the commitment and dispatch process.

~~2.42.5~~ The principles for preparation and submission of Offers cover:

2.4.1 The Offer template.

2.4.2 The Default *Generator Offer* ('*Default Offer*').

2.4.3 The mandatory Offer.

2.4.4 The *gate closure* time.

~~2.4.5~~ The discretionary Offer — situations when an Offer can be revised after *gate closure* ('*Revised Offer*').

¹ The commitment and dispatch process is referred to in Section 4.4B(c) of the System Control Technical Code.

~~2.4.6~~ — The cut-off time for *Revised Offers*.

~~2.52.6~~ *Gate closure* only occurs on business days.

~~2.62.7~~ The procedure does not cover other parts of the commitment and dispatch process.

3. Roles and Responsibilities

Role / Title	Responsibility
General Manager System Control Power and Water / Market Operator	<ul style="list-style-type: none"> • Ensure that the requirements of Section 4.4B(e) have been correctly actioned. • Ensure that this procedure is fit for purpose. • Approve the procedure. • <u>Ensure compliance with this procedure.</u> • <u>Receive and process Offers in accordance with this procedure.</u> • <u>Advise Generator representatives of any instance that an Offer is not consistent with this procedure.</u> • <u>Review and revise the procedure from time to time and no later than the review date to maintain its relevance.</u>
Operational Systems Manager	<ul style="list-style-type: none"> • Receive and process Offers in accordance with this procedure. • Advise Generator representatives of any instance that an Offer is not consistent with this procedure. • Escalate (after discussion with the Generator representative) a situation to the General Manager System Control where an Offer is made that is not consistent with the procedure. • Review and revise the procedure from time to time and no later than the review date to maintain its relevance.
Generator representative	<ul style="list-style-type: none"> • Perform the duties required of a Generator Market Participant as required by this procedure.

4. Definitions

The definitions of words recorded in the Glossary of the System Control Technical Code apply to this document, in addition to the words recorded in the table below, as shown in italics throughout the document.

Definitions		
No.	Term	Meaning
<u>1</u>	<u>Band 1</u>	<p><u>Band 1 for each generating unit comprises a quantity and a price.</u></p> <p><u>The Band 1 quantity is to reflect the minimum stable load recorded in the Generator Registration standing data of the generating unit or such increased amount where the increase has been notified to the Power System Controller via a formal GOTR submission.</u></p> <p><u>The Band 1 price is to be zero for a self-committed generating unit and is to be not less than zero for a fast start generating unit.</u></p>
<u>2</u>	<u>Band 2</u>	<p><u>Band 2 for each generating unit comprises a quantity and a price.</u></p> <p><u>Band- 2 can only be scheduled if Band 1 is fully scheduled.</u></p>

		<p>The Band 2 incremental quantity (beyond the Band 1 quantity) is to reflect the nominal dispatchable range of the <i>generating unit</i>. Any output that can only be dispatched as a result of an additional manual action is not part of Band 2.</p> <p>For a synchronous <i>generating unit</i> the quantity provided from <i>Band 1</i> and Band 2 combined must be equal to or greater than the Base Maximum Capacity recorded in the Generator Registration standing data of the <i>generating unit</i>, or such reduced amount where the reduction has been notified to the Power System Controller via a formal GOTR submission.</p> <p>The Band 2 price is not to be less than the <i>Band 1</i> price, except for fast-start <i>generating units</i> in which case the Band 2 price is to equal the Band 1 price.</p>
3	<u><i>Band 3</i></u>	<p>Band 3 for each <i>generating unit</i> comprises a quantity and a price. Band- 3 can only be scheduled if <i>Band 2</i> is fully scheduled.</p> <p>The Band 3 quantity is only to be used to reflect the incremental increase in the <i>generating unit's</i> dispatchable range as a result of an additional manual action such as activation of wet mode or sprint capacity.</p> <p>The Band 3 price is not to be less than the <i>Band 2</i> price.</p>
4	<u><i>Base Maximum Capacity</i></u>	<p>The lowest maximum capacity of a <i>generating unit</i> when environmental operating conditions are most unfavourable. Any output above the capacity recorded through Generation Registration standing data is regarded as a real time extension of the <i>Band 3</i> offer.</p> <p>Refer to Secure System Guidelines Section 4 Determining Base Capacity.</p>
5	<u><i>Closed Cycle Mode</i></u>	<p>A mode of operation of a <i>generating unit</i> where either it must be running to allow another <i>generating unit</i> to operate, or another <i>generating unit</i> must be operating for it to operate.</p>
6	<u><i>Decommitment Order</i></u>	<p>The order in which a <i>Generator</i> nominates to have its fast start <i>generating units</i> come off-line after 18:00 on a given trading day. If there are any other on-line <i>generating units</i> belonging to the same <i>Generator</i> identified in the decommitment order, then the <i>generating unit</i> with the lowest decommitment order that is not required to remain on for security reasons is to be decommitted. The order is applied until all the <i>generating units</i> identified have been decommitted (or prevented from being taken off-line by security requirements), with any <i>generating units</i> with no number specified being decommitted based on normal bid prices.</p> <p>Notes: This feature effectively moves these <i>generating units</i> to the top (what would normally be the highest price end) of the merit order for units to come off.</p> <p>Where a generating unit would, if not for the application of the decommitment order, be decommitted, that unit will not be able to set price.</p>

		Normal scheduling and tie-break logic operates without regard for this order and will identify the next <i>generating unit</i> that would normally be taken off-line.
17	<i>Default Offer</i>	The Default <i>Generator Offer</i> that is approved from time to time by the Market Operator as part of the <i>Generator's</i> registration standing data. Note that the <i>Generator</i> may revise the Default Offer at any time by submitting a revised Default Offer to the Market Operator for approval. The Market Operator, in conjunction with the Power System Controller, will advise of the approval (or otherwise) of the Default Offer. The Default Offer commences from the day immediately following the date of approval by the Market Operator.
28	<i>Gate closure</i>	1230 hours on the last business day before the nominated trading day.
39	<i>Generator</i>	A Market Participant who has registered with the Market Operator for the <i>I-NTEM</i> as a Generator.
410	<i>Generator Offer</i>	The information recorded on the Generator Offer template by a <i>Generator</i> for any one day of its proposed operation in the <i>I-NTEM</i> , both before and after gate closure . For any one trading day, prior to <i>gate closure</i> , the <i>Generator</i> may progressively submit one or more versions of the Generator Offer to correct a previous version. The last version prior to <i>gate closure</i> is the active Generator Offer. For the same trading day, after gate closure, the Generator may progressively submit additional versions of the Generator Offer (also known as a Revised Offer) to correct a previous version. Each version of the Generator Offer submitted after gate closure becomes the active Generator Offer from the time it is submitted (or deemed submitted) until it is replaced by the next Generator Offer.
511	<i>GOTR</i>	<i>Generator Outage/Test Request</i>
612	<i>I-NTEM</i>	The Interim Northern Territory Electricity Market
13	Minimum Stable Load	The lowest MW output at which a <i>generating unit</i> freely operates before it is taken off-line. This is to be based on installed technology / plant performance characteristics, and is not to be adjusted to optimise a <i>generator unit's</i> dispatch in the market offer process.
14	Open Cycle Mode	A mode of operation of a <i>generating unit</i> where it operates independently of other <i>generating units</i>.
7	<i>Out-of-hours</i>	Any time outside the period from 0800 hours to 1700 hours on a business day.
8	<i>Revised Offer</i>	A Revised Offer is a <i>Generator Offer</i> that is received after <i>gate closure</i> and prior to the end of the trading day. The term Revised Offer is used for clarification purposes—it can be used interchangeably with the expression '<i>Generator Offer after gate closure</i>'.

5. Principles

The following principles and key processes apply to the preparation and submission of *Generator Offers* ~~both before and after~~ *gate closure*:

- 5.1 A *Generator Offer* is to be prepared using the template shown in [Appendix-Attachment A](#)². The template in Appendix A replaces the template shown in Attachment 4 of the System Control Technical Code, as provided for in clause 4.4B(f) of that Code.
- 5.2 A *Generator* must submit an Offer to the System Controller before *gate closure*. ~~That *Generator* may submit a revised *Generator Offer* to the Power System Controller from *gate closure* up until the end of the nominated trading day.~~
- 5.3 In the first instance, the *Generator Offer* is to be submitted to the Power System Controller's nominated email address no later than *gate closure*, as detailed in [Appendix-Attachment B](#).
- 5.4 If the *Generator Offer* is not received in the Power System Controller's mail box by *gate closure*, [then](#) the *Default Offer* will be used in the commitment and dispatch process.
- 5.5 ~~A *Generator* may submit *Revised Offer* after *gate closure*, subject to the following conditions:~~
 - 5.5.1 ~~There must be a change in physical circumstance³ clearly identified in the body of the email that contains the *Revised Offer*.~~
 - 5.5.2 ~~When one or more *Generators* are registered in the *I-NTEM*, there is to be no increase in the Market Prices from the *Revised Offer* when compared to the pre-dispatch prices. Refer to Appendix C for an example.~~
 - 5.5.3 ~~Subject to clause 5.5.2, and during the period when only one *Generator* is operating in the *I-NTEM*⁴, and further only for the condition where a generating unit's availability is reduced (either a forced reduction in output, or the unit is forced off line), a *Revised Offer* will be accepted where the net impact of the change is to hold a low capacity unit as (or immediately above) the marginal unit. This is explained further in Appendix C.~~
 - 5.5.4 ~~A *Revised Offer* may be made any time after *gate closure*, but no later than the end of the trading day to which it applies. A *Revised Offer* received after the end of the nominated trading day will not be processed by the Power System Controller.~~
 - 5.5.5 ~~When an event occurs *out-of-hours* where an opportunity arises to submit a *Revised Offer*, the submission process may include preliminary steps which involve the on-shift *Generator Plant Operator* and the on-shift *System Controller* exchanging information sufficient to enable the *Revised Offer* to become active. Further details and examples of this *out-of-hours* submission process are provided in Appendix C.~~
- 5.6 ~~The pre-dispatch schedule and associated information may be re-published by the Power System Controller on receipt of a *Revised Offer*—this is at the System Controller's discretion⁵.~~
 - 5.6.1 ~~For the removal of doubt, a *Revised Offer* that did not warrant a republishing of the pre-dispatch schedule would nevertheless be applied to the processing of the Market Price in the nominated day after the trading day.~~
- 5.7 ~~A *Revised Offer* is to be made on the same Offer Template as was used for the initial *Generator Offer*, with the version number incremented.~~

² Note that the template in [Appendix-Attachment A](#) replaces the template shown in Attachment 4 of the System Control Technical Code.

³ ~~Such as a change in merit order to facilitate unit maintenance (including routine inspections), late advice of change in network status that results in generator constraints that result in a non-sensible dispatch outcome, significant variance in weather forecast and a change to accommodate the impact of a forced outage of a *generating unit* under specific conditions, and the impact of the *Generating Unit Tie-Break* procedure being invoked. It is noted that no restriction is placed on the number of units that may be included in the *Revised Offer*, so long as the overall impact does not increase the Market Price when compared to the pre-dispatch prices.~~

⁴ ~~Note that this principle will terminate when two or more *Generators* are registered to operate in the *I-NTEM*.~~

⁵ ~~As a guide only, it would be unusual for the *Power System Controller* to re-publish the pre-dispatch schedule after 1800 hours on the day prior to the trading day.~~

~~5.7.1—The commitment and dispatch process will automatically classify the *Generator Offer* according to its submission time relative to the *gate closure* time.~~

~~5.5 To be valid, a *Generator Offer* or *Default Offer* must comply with this procedure and attachments.~~

~~5.6 If any submitted *Generator Offer* or *Default Offer* fails to conform to the requirements of this procedure, the *Generator Offer* or *Default Offer* will be rejected by the *Power System Controller*. Where a *Generator Offer* is rejected under this situation, the *Generator* may submit a revised *Generator Offer* until *gate closure*.~~

5. References

#	Document	Date	Location
1	Systems Control Technical Code v 6	30/03/2020 23/05/2015	D2020/134187 D2015/414673
2	Market Timetable v1.0	27/05/2016	D2016/93559
3	System Secure Guidelines v4.2	April 2020	D2020/197868
4	Consultation Paper – Revision of Generator Offer Procedure and Tie Break Procedure	12/06/2020	D2020/262247

6. Attachments

6.1 Attachment A: *Generator Offer* Template.

6.2 Attachment B: *Gate Closure* Details.

~~6.3—Attachment C: *Revised Offer* Examples~~

7. Records

This ~~Guideline document~~ is to be stored in Power and Water’s Records Management System (TRIM) in accordance with the Document and Record Control Procedure.

8. Review

This document is to be reviewed in accordance with changes to the System Control Technical Code.

9. Document History

Date of Issue	Version	Prepared By	Description of Changes
01/03/2016	Draft	Andrew Roberts	Document published for consultation
2/06/2016	V1.0	Andrew Roberts	Approved after consultation
03/07/2020	Draft 2.0	Zaen Kahn	Document published for consultation

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~~Effective Date: 01 July 2016.~~

~~This version 1.0 will take effect on 01 July 2016. Note that further time may be required for the Power System Controller to implement changes to relevant systems.~~

Attachment A: Generator Offer Template

A *Generator Offer* is to be submitted using the following pre-prepared template, available from the System Controller:

For trading day commencing
<<dd/mm/yyyy>>

Issuer

<<name of person sending Offer>>

Date of issue

<<title of person sending Offer>>

Issue Version

<<dd/mm/yyyy>>

Company

<<V1>>

<<company name>>

Standard Unit ID	Self-commitment units									Fast start units											
	off/load order Number	Time of sync (on-line) hhmm	Time of de-sync (off-line) hhmm	B1: minimum stable load MW	B1 OFFER \$/MWh	B2: incremental capacity MW	B2 OFFER \$/MWh	B3: incremental capacity MW	B3 OFFER \$/MWh	total offered capacity (check) MW	T1: Time to start min	T2: Time to reach min load min	SPARE min	T4: Time to reduce to zero min	B1 minimum stable load MW	B2: incremental capacity MW	B2 OFFER - LONG RUN (Set 1) \$/MWh	B2 OFFER - SHORT RUN (Set 2) \$/MWh	B3: incremental capacity MW	B3 OFFER \$/MWh	total offered capacity (check) MW
1										0											0
2										0											0
3										0											0
4										0											0
5										0											0
6										0											0
7										0											0
8										0											0
9										0											0
10										0											0
11										0											0
12										0											0
13										0											0
14										0											0
15										0											0
16										0											0
17										0											0
18										0											0
19										0											0
20										0											0
21										0											0
22										0											0
23										0											0
24										0											0
Band totals				0		0		0						0	0			0			

For trading day commencing

Issuer

Date of issue

Issue Version

Company

Standard Unit ID	Self-commitment units									Faststart units								Merit								
	Number	offload order	Time of sync (online)	Time of de-sync (off-line)	B1: minimum stable load	B1 OFFER	B2: incremental capacity	B2 OFFER	B3: incremental capacity	B3 OFFER	Unit offered capacity (desk)	T1: Time to start	T2: Time to reach min load	Offload Order (after 1800 Hours)	T4: Time to reduce to zero	B1 minimum stable load	B2: incremental capacity	B2 OFFER - LONG RUN (set 1)	B2 OFFER - SHORT RUN (set 2)	B3: incremental capacity	B3 OFFER	Unit offered capacity (desk)	Machines Offered	B2 - LONG RUN Merit	B2 - SHORT RUN Merit	B3 Merit
	mm	mm	mm	MW	MW	MW	MW	MW	MW	MW	mm	mm	mm	mm	MW	MW	MW	MW	MW	MW	MW	MW	UNIT ID	Number	UNIT ID	Number
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										

Generator Offer Template —version 09

Instructions for completing the Generator Offer ('Offer') template:

Ref #	Instruction (introduction)	Instruction detail
1	In preparing an Offer, the <i>Generator</i> should note:	<ul style="list-style-type: none"> • The trading day is the 24 hour period commencing half hour ending 0430 hrs on day 1 and ending 0400 hrs on day 2. • The email address from which the Offer was sent will be used to relate the Company to the Offer. • That email address will be nominated at the time of Registration of the <i>Generator</i> with the Market Operator. • The Market Operator will assign a <i>Generator</i> ID at the time of Registration. • <u>The <i>Generator Offer</i> must only nominate one mode of operation for any one unit in a trading day. The choices are either self-commit mode or fast-start mode. The mode of a unit can change from one trading day to the next, as per Section 4.1 (page 12) of the Functional Specification.</u> • <u>The <i>Generator Offer</i> only provides for one capacity structure per trading day, as per Section 4.1 (page 11) of the Functional Specification.</u> • <u>The unit prices for capacity above minimum load contained in the <i>Generator Offer</i> "must approximate the dispatch cost that would be incurred or avoided as appropriate by such dispatch", in accordance with the provisions in clauses 4.4B(g) & (h) of the System Control Technical Code.</u> • <u>No two generating units in a <i>Generator Offer</i> are to have the same price in any band except where this procedure requires that a specific price be submitted with a band (e.g. zero).</u>
2	Please email the completed Offer to:	systemdispatch.PWC@powerwater.com.au
3	Email subject line must contain: [mandatory]	<i>Generator Offer</i> <<user defined text>> [where <<user defined text>> is optional]
4	Offer to be an Attachment to the email:	file type must be '.xlsx'
5	Offer file name:	<<user defined text>> [that is, no restrictions are placed on the file name]
6	Offer date:	<ul style="list-style-type: none"> • The Offer date is the date shown in cell C3 in the Offer tab. • The Offer date is the date of the trading day (NOT the date of the email submission). • If this date is missing the email will be rejected (see below).
7	Email to be submitted no later than:	<ul style="list-style-type: none"> • 1230 hours on any one business day.

		<ul style="list-style-type: none"> Note that Offers for days in advance may be made on the last business day in the week provided the Offers are correctly dated.
8	Number of Offers for a trading day:	<ul style="list-style-type: none"> Only one Offer is required for each trading day. If two Offers are submitted for the one trading day, only the latest Offer prior to 1230 hours will be processed for that trading day.
9	Rules for completing Offer template:	
	9.1	A blank field means that no Offer is made - no entry is otherwise required in that field
	9.2	For self-commitment <i>generating units</i> , the <i>Band 3</i> price is to be equal to or greater than the <i>Band 2</i> price. The <i>Band 2</i> price is to be equal to or greater than the <i>Band 1</i> price. The <i>Band 1</i> price is to be zero \$/MWh.
	9.3	For self-commitment <i>generating units</i> , the <i>Band 3</i> quantity (if any) is to be incremental on the <i>Band 2</i> quantity. The <i>Band 2</i> quantity is to be incremental on the <i>Band 1</i> quantity. The <i>Band 1</i> quantity is to represent the <i>minimum stable load</i> of the unit. Note: <i>Band 3</i> capacity is not required if all capacity is shared between <i>Bbands 1</i> and <i>Band 2</i> . <i>Band 2</i> capacity is not required if all capacity is allocated to <i>Bband 1</i> for a special purpose (eg testing).
	9.4	For self-commitment <i>generating units</i> , the time to synchronise and time to de-synchronise is to be provided in columns G and H respectively.
	9.5	<p>For self-commitment <i>generating units with a Band 1 quantity exceeding zero an Off-Load Order must be provided. This applies to generating units operating in either the open cycle mode or the closed cycle mode.</i></p> <p>The The order for taking the unit off-line is to be provided in column E. Column E has two sequences, an alpha sequence and a numeric sequence (with alpha suffix).</p> <p>Alpha sequence: This sequence is used when the <i>generating units</i> are self-committed in the <i>open cycle mode</i>. The Off-load Order commences with character 'A' and then 'B' and so on, with no limit to the number of characters. The <i>generating unit</i> assigned character A is off-loaded first in the sequence. <i>Generating units</i> that are assigned alpha characters are off-loaded before <i>generating units</i> that are assigned numeric characters.</p> <p>Numeric sequence (with alpha suffix): This sequence is used when <i>generating units</i> are used in the <i>closed cycle mode</i>. The order starts at numeric number 1 (first off-line), 2 means next off line and so on, with no limit to the order number. In addition, an alpha character (as a suffix) may accompany the</p>

		<p>numeric number, but only for special reasons: The only acceptable alpha character is: a = open cycle <i>minimum stable load</i>.</p> <p>The following examples are provided for the removal of doubt:</p> <ul style="list-style-type: none"> • -1 <i>the generating unit will be requested to be de-synchronised by the System Controller</i> • -1a <i>the generating unit will be requested to go onto open cycle mode and its output will then be reduced to its minimum load (by AGC) to the quantity provided in the standing data.</i> <p>In both these examples, the System Controller will assumed that the steam unit will remain on-line coupled to the remaining <i>generating unit</i> unless otherwise advised by the <i>Generator</i>.</p> <p>Note that these examples are based on the current generating unit technology deployed in the Darwin—Katherine power system. A change to that technology may require a change in these examples.</p>
	<p>9.6</p>	<p>For fast start <i>generating units</i>, the Band 1 price must be not less than zero and will is to be equal to the Band 2 (set 1) price, or the Band 2 (set 2) price, depending on the mode of dispatch. As such, no price offer is required for Band 1. The Band 3 price is to be equal to or greater than the Band 2 price.</p> <p>For each fast start <i>generating unit</i>:</p> <p>(a) there must be a T1, T2 and T4 time. Note that the T3 time has now been removed.</p> <p>(b) there must be a set 1 and set 2 price.</p>
	<p>9.7</p>	<p>For fast start <i>generating units</i>, the Band 3 quantity (if any) is to be incremental on the Band 2 quantity. The Band 2 quantity is to be incremental on the Band 1 quantity. The Band 1 quantity is to represent the minimum stable load of the unit. Band 3 capacity is to be zero if no separately dispatchable quantity is available. Band 2 capacity is not required if all capacity is allocated to Band 1 for a special purpose (eg testing).</p> <p>the Band 2 quantity, up the 'base maximum capacity' of the unit (as provided in the standing data) is to be incremental on the Band 1 quantity. The Band 3 quantity (if any) is to be incremental on the Band 2 quantity.</p> <p>Notes:</p> <p>(a) Band 2 must be equal to or less than Base Maximum Capacity ('BMC').</p> <p>(b) Band 3 may be equal to or greater than the BMC.</p>

		<p>(c) Band 3 may be used to define the daily capacity for wet mode and/or overload capacity.</p> <p>(d) Band 3 capacity is not required if all capacity is shared between Bands 1 and 2.</p> <p>For the removal of doubt, Band 2 capacity is always required for fast start <i>generating units</i>.</p>
	9.8	Units that can operate in combined cycle mode and/or in open cycle mode are to be offered as individual units. The recognition of their combined cycle relationship will be recorded in the standing data.
	9.9	<p>The Overload Capability of a generating unit will be expressed within Band 3 of the Generator Offer. A decommitment order may optionally be specified for any fast start generating unit. The first generating unit to be decommitted is to be numbered 1, with the next generating unit to be decommitted numbered 2, and the number increasing by one for each subsequent generating unit. It is not required that all, or any, generating units be included in the decommitment order.</p>
	9.10	The total capacity offered for any one <i>synchronous generating unit</i> must be equal to or greater than the <i>Base Maximum Capacity</i> quantity registered in the standing data with the Market Operator, unless the <i>Generator</i> has submitted a <i>GOTR</i> advising of the temporary reduction in capacity.
	9.11	<p>The self-commitment synchronisation and de-synchronisation times:</p> <p>(a) are the time of a trading interval - that is, the half-hour ending hh:mm</p> <p>(b) represent the time of synchronising of the unit at the beginning of the trading interval (the unit ramps up during the trading interval) and is at its band 1 level by the end of the trading interval</p> <p>(c) represent the time of de-synchronising of the unit at the end of the trading interval (the unit ramps down during the trading interval) and is de-synchronised at or before the end of the trading interval</p> <p>(d) to be left blank only if the unit is on-line prior to the trading day and offered for all 48 trading intervals in the nominated trading day.</p>
	9.12	<p>For fast start <i>generating units</i>, the run time duration for set 1 and set 2 prices are defined as:</p> <p>set 1 (Long Run): longer than 4 hours up to 24 hours</p> <p>set 2 (Short Run): 4 hours or less.</p>
10	Rejection of Offer:	<p>An Offer will be rejected if it contains an error (as a result of a few simple tests). Examples of errors include:</p> <ul style="list-style-type: none"> Email subject line can't be recognised.

		<ul style="list-style-type: none"> • No email '.xlsx' attachment detected. • Generating unit ID has not been registered with Market Operator. • Offer date not provided; Offer date relates to a past trading day. • Offer template rule breach >>> in this case the attachment will be returned with the faulty cell highlighted in yellow. • Offered capacity for bands 1 and 2 (B1+B2) is equal to more than the registered standing data for <i>Base Maximum Capacity</i>
11	Offer template notes:	<ul style="list-style-type: none"> • Grey highlight is for Office Use only. • Purple text (or strikethrough) means a change from the last version. • For convenience, theThe Unit IDs to be used in column C of the Offer template are <u>listed in template data.</u>: <ul style="list-style-type: none"> • Channel Island Power Station: C1, C2, C3, C4, C5, C6, C7, C8, C9. • Katherine Power Station: K1, K2, K3, K4. • Weddell Power Station: W1, W2, W3. • Shoal Bay Power Station: LMS. • Pine Creek Power Station: P1, P2, P3.
12	Standing data:	<ul style="list-style-type: none"> • Standing Data is to be provided to the Market Operator at time of Registration. • Any changes to Standing Data (if it can't meet the Standing Data on a temporary basis (e.g., band 1 and band 2 capacity not meeting BMC) are to be provided in a <i>Generator Outage/Test Request (GOTR)</i>. • Definitions: <ul style="list-style-type: none"> • Minimum stable load—the lowest MW output at which a unit freely operates before it is taken off line. • Base Maximum Capacity—the lowest maximum capacity of a unit when environmental operating conditions are the most unfavourable. Any output above that capacity is regarded as additional/overload capacity and is regarded as a real time extension of the band 3 offer.
13	Default <i>Generator Offer</i> :	<ul style="list-style-type: none"> • The Default <i>Generator Offer</i> is to be provided to the Market Operator at time of registration and subsequently when a change to the offer is requested. • A special one off Offer (which will be known as the Default <i>Generator Offer</i>) is to be provided at

		<p>the time the <i>Generator</i> registers with the Market Operator. This is nominally a one-off event.</p> <ul style="list-style-type: none">• The Default <i>Generator</i> Offer can be changed at any time after the initial Default <i>Generator</i> Offer is registered.• The Default <i>Generator</i> Offer is separate to a Generator's Offer for any trading day.• The Default <i>Generator</i> Offer will <u>only</u> be used if <u>a valid <i>Generator Offer</i> submitted by a the <i>Generator's Offer</i> fails to reach the designated System Control email inbox by <u>gate closure</u> (1230 hours on a business day). <u>In this situation, the Default <i>Generator Offer</i> to be used for a trading day will be the Default <i>Generator Offer</i> held by System Control at the time of <u>gate closure</u> for that trading day.</u></u>• An update to the Default <i>Generator</i> Offer may be emailed to the Market Operator at any time.
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Attachment B: Gate Closure Details

An explanation of the *gate closure* arrangements is provided below.

Generator Offer Examples

Before gate closure

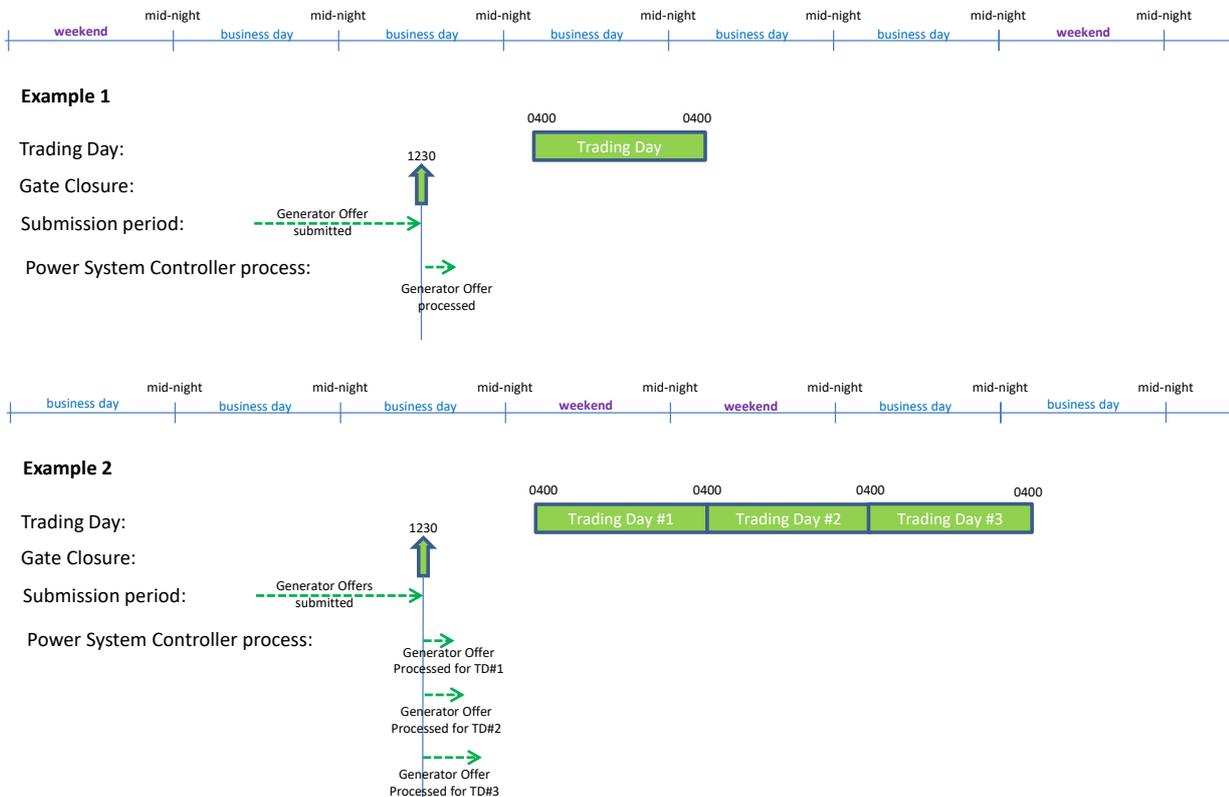


Diagram 1 – Examples of Offers submissions before *gate closure*

A *Generator Offer* must be submitted by email prior to 1230 hours on the day ahead of the nominated trading day in which *gate closure* applies. If no *Generator Offer* is received by the System Controller for the nominated trading day, the commitment and dispatch process will automatically select that default *Generator Offer* as its replacement.

Whilst it would be expected that *Generator Offer* would be made relatively close to the time of *gate closure*, there is no earliest time specified for the transmission of the Offer.

More than one *Generator Offer* may be submitted prior to the *gate closure* time. Each of the *Generator Offers* must be sequentially incremented in their version number. At *gate closure*, System Control will only use the *Generator Offer* with the highest version number for the pre-dispatch process.

The latest *Generator Offer* to be received prior to *gate closure* will be treated as the active *Generator Offer* by System Control.

System Control will use the active *Generator Offer* in the pre-dispatch process.

~~From 1230 hours on the business day immediately ahead of the trading day, *Generator Offer* received by System Control will be classified as a *Revised Offer* and used in the Market Price determination process. It is at System Control's discretion as to whether to republish the revised pre-dispatch schedule and associated information.~~

Attachment C: Re-submission Arrangements

An explanation of the *gate closure* arrangements is provided below (Diagram C.1 and text following the diagram).

Generator Offers After gate closure

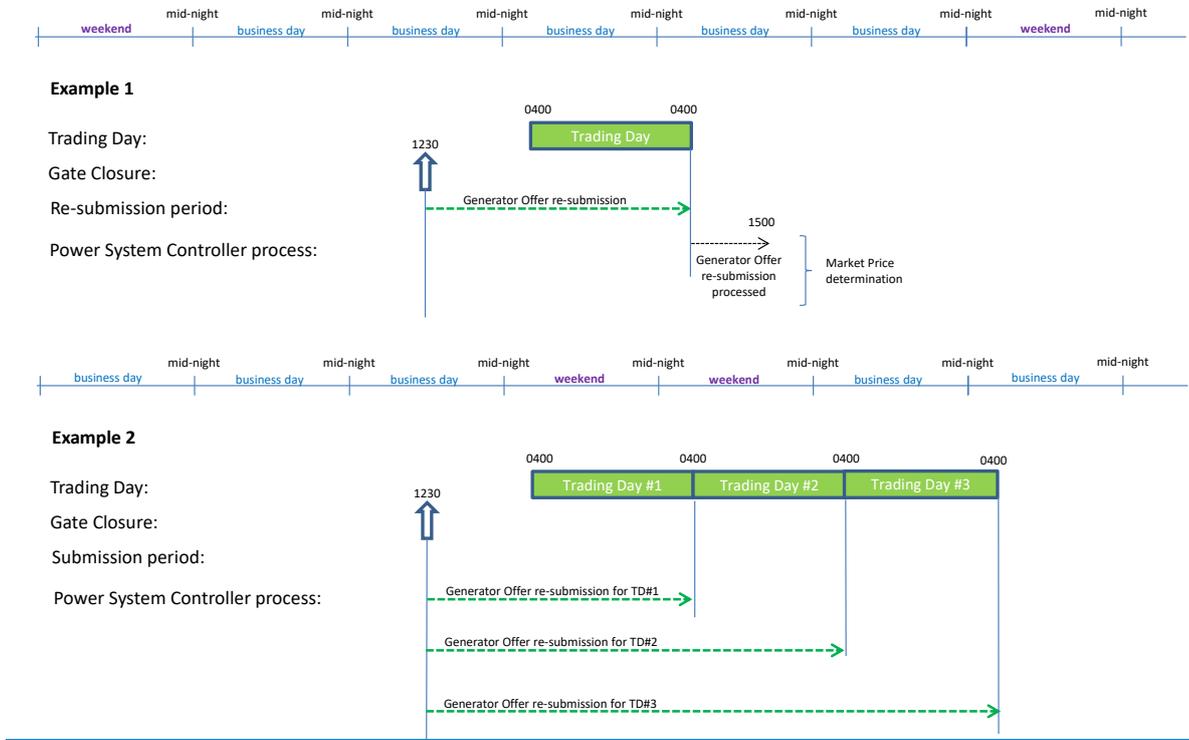


Diagram C.1 — Examples of Offers after gate closure

The *Generator Offer* template is to be used for any submission made after *gate closure*. Each new version of the *Generator Offer* after *gate closure* is to carry a version number that is incremental to those that were submitted prior to *gate closure*. System Control will treat the first *Generator Offer* received after *gate closure*, being a *Revised Offer*, as a replacement for the active *Generator Offer*. Each *Revised Offer* will contribute to the Market Price determination process for the period from when it is received until it is superseded.

The period in which a *Revised Offer* can be submitted commences at 1230 hours on the day a *gate closure* applies and continues until the end of the nominated trading day. For example, a *Revised Offer* for Sunday will (under normal weekends) commence at 1230 hours on the preceding Friday and continue until 0400 hours on the Monday.

Whether or not System Control uses the *Revised Offer* in the pre-dispatch process, and whether the pre-dispatch schedule is revised and republished, System Control must use the *Revised Offer* in the Market Price determination process. The *Revised Offer* will be used in the Market Price determination process from the time it is received by System Control (subject to the *out-of-hours* arrangements below).

Any one *Revised Offer* will be superseded by the next *Revised Offer* in the version sequence. A *Revised Offer* commences from the time it is received (subject to the *out-of-hours* process) until it is superseded by another *Revised Offer*, or the end of the Trading Day, whichever occurs first.

There are two *Revised Offer* scenarios, the 'general' scenario and the 'one Generator' scenario.

The General Revised Offer scenario:

This scenario applies irrespective of the number of *Generators* registered in the *INTEM*.

- 1.—An on-line generating unit is requested off-line by a *Generator* prior to the end of the trading day without an approved *GOTR*.
- 2.—The replacement unit capacity is to be priced at the same value as the unit it is replacing.
- 3.—The change in unit price is to be formalised by a *Revised Offer* which has its version number incremented.
- 4.—The *Revised Offer* is to be made in the same manner as the *Offer*, but the timing will determine its classification.

The One *Generator Revised Offer* scenario:

This scenario only applies whilst a single *Generator* is registered in the *I-NTEM*. It falls away once a second *Generator* is registered.

- 1.—Pre-condition: A low capacity unit is either on-line as the marginal unit or it is next in line to be dispatched.
- 2.—Event: An on-line generating unit is forced off-line by equipment mal-function. One or more units are dispatched by the System Controller (in merit order) to replace the faulty unit. In doing so, a low capacity unit (eg. a Katherine unit) becomes closer to being the marginal unit, or becomes the marginal unit. The replacement unit(s) are those immediately above the marginal unit prior to the event.
- 3.—As a result of this change in the position of the low capacity unit, the *Generator* may wish to place another unit on-line (the 'replacement unit') so as to move the low capacity unit further up the price stack. This means that it is unlikely the low capacity unit would be dispatched during the day's expected system load profile.
- 4.—When this replacement unit is dispatched, the low capacity unit will be elevated in the price stack. The replacement unit must be offered at a price so as to not increase the Market Prices above the pre-dispatch prices.
- 5.—In this situation, the *Generator* may change the price of the replacement capacity to the value of the unit forced off-line, or lower.
- 6.—The *Revised Offer* commences from the time it is received by System Control or earlier if the *out-of-hours* arrangements are active.
- 7.—The *Revised Offer* is to be made in the same manner as the *Offer*. The timing and the version number will determine its classification.

Out-of-hours Arrangements

An explanation of the process to be applied during the out-of-hours period after *gate closure* is provided below.

Out-of-hours arrangements cover any time outside the period from 0800 hours to 1700 hours on a business day:

- 1.—The process would commence with the *Generator Plant Operator* verbally advising the *System Controller* of their decision to formalise a *Revised Offer*, and verbal acknowledgement of that information by the *System Controller*.
- 2.—Salient points regarding the proposed *Revised Offer*, as discussed between the parties, must be briefly recorded in an email and sent from the *Generator Plant Operator* to the *System Controller* for audit purpose. The *System Controller* would then arrange for dispatch to be in accordance with that salient information.
- 3.—The *Generator* must submit a *Revised Offer* covering the event no later than 0900 hours on the business day that commences immediately after the end of the trading day to which the *Revised Offer* applies.

Examples of *out-of-hours* periods:

Consider gate closure falling on Tuesday of a normal business week. The first *out-of-hours* period is 15 hours (the nominated trading day will have commenced on the Wednesday after 11 hours, 1700 to 0400 hrs, and will continued for another 4 hours until the commencement of the business day at 0800 hrs on Wednesday). At this time, the Wednesday business hours commence where Revised Offers can be submitted directly from the Generator to the System Controller using the normal business day process. At 1700 hrs on the Wednesday, the out-of-hours period commences again and runs for another 11 hours (1700 to 0400 hrs) until the end of the trading day on Thursday morning. The next business day commences at 0800 hour (4 hours after the end of the trading day). All revised offers that were initiated *out-of-hours* must be formally submitted by 0900 hours on the Thursday, 1 hour after the end of the nominated trading day.

Consider gate closure falling on Friday of a normal business week. The *out-of-hours* period is 67 hours (the nominated trading day will have commenced on Saturday after 11 hours, 1700 to 0400 hrs, and will continued for another 24 hours until the end of the trading day at 0400hrs on the Sunday, at which time the Sunday trading day commences and continues for another 24 hours until the end of the trading day (0400 hours on Monday). The next business day, being Monday, commences at 0800 hour (4 hours after the end of the trading day), giving a total of 67 hours for the out-of-hours period. All revised offers that were initiated *out-of-hours* (for the Saturday and Sunday trading days) must be formally submitted by 0900 hours on the Monday, 1 hour after the end of the nominated trading day. For the removal of doubt, it is noted that the latter end of Friday's trading day would also be required to be submitted by 0900 hours on the Monday.