



**Independent Market Operator**

**Draft Rule Change Report  
Title: Consequential Outage Correction**

**RC\_2012\_04**

**Standard Rule Change Process**

**Date: 5 July 2012**



## CONTENTS

<b>1. RULE CHANGE PROCESS AND TIMETABLE</b> .....	<b>4</b>
<b>2. CALL FOR SECOND ROUND SUBMISSIONS</b> .....	<b>4</b>
<b>3. PROPOSED AMENDMENTS</b> .....	<b>4</b>
3.1 The Rule Change Proposal .....	4
3.2 The IMO's Initial Assessment of the Proposal.....	5
<b>4. CONSULTATION</b> .....	<b>5</b>
4.1 The Market Advisory Committee .....	5
4.2 Submissions received during the first submission period .....	6
4.3 The IMO's response to submissions received during the first submission period .....	7
4.4 Public Forums and Workshops.....	7
<b>5. THE IMO'S ASSESSMENT</b> .....	<b>7</b>
5.1 Additional Amendments to the Proposed Amending Rules .....	7
5.2 Wholesale Market Objectives .....	8
5.3 Practicality and Cost of Implementation .....	8
<b>6. THE IMO'S PROPOSED DECISION</b> .....	<b>8</b>
6.1 Reasons for the decision .....	8
6.2 Proposed commencement details .....	8
<b>7. PROPOSED AMENDING RULES</b> .....	<b>9</b>
<b>APPENDIX 1: THE IMO'S RESPONSE TO SUBMISSIONS RECEIVED IN THE FIRST SUBMISSION PERIOD</b> .....	<b>11</b>
<b>APPENDIX 2: FURTHER AMENDMENTS TO THE PROPOSED AMENDING RULES</b> .....	<b>16</b>

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## EXECUTIVE SUMMARY

### ***Proposed Amendments***

Tesla Corporation proposed to amend the current definition of a Consequential Outage to be either the result of a Forced Outage to another Rule Participant's equipment or the result of a Planned Outage to a Network Operator's equipment. This will ensure that where a Market Generator does not have adequate time or receive sufficient information about a Network Operator's Planned Outage to apply to System Management for a Planned Outage it will not experience a Forced Outage and be exposed to capacity refunds through no fault of its own.

### ***Consultation***

- A Pre Rule Change Discussion Paper was discussed by the Market Advisory Committee (MAC) at its 18 April 2012 meeting.
- Tesla formally submitted the Rule Change Proposal on 24 April 2012. The first submission period was between 26 April 2012 and 7 June 2012.
- Five submissions were received during the first submission period. Alinta, Landfill Gas & Power, Perth Energy and Verve Energy all supported the proposal. System Management supported the intent of the proposal but raised some concerns in relation to the impacts of the proposal on system security.

### ***Assessment against Wholesale Market Objectives***

The IMO has found that the proposed amendments better Wholesale Market Objective (a) and are consistent with the remaining Wholesale Market Objectives.

### ***Practicality and Cost of Implementation***

No implementation costs have been identified by the IMO, System Management or any other Rule Participant. The IMO has not identified any issues with the practicality of implementing the proposed changes.

### ***The IMO's Decision***

The IMO's proposed decision is to accept the Rule Change Proposal as modified following the first submission period.

### ***Next steps***

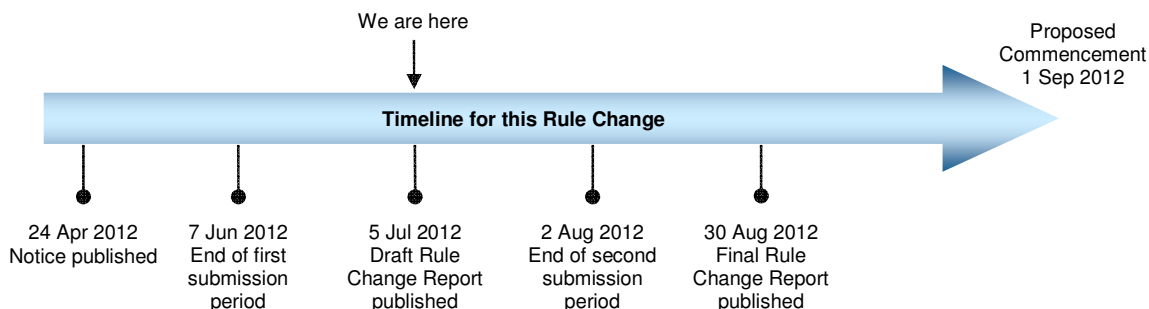
The IMO invites interested stakeholders to make submissions on this Draft Rule Change Report by **5.00pm, on Thursday 2 August 2012.**

## 1. RULE CHANGE PROCESS AND TIMETABLE

On 24 April 2012 Tesla Corporation submitted a Rule Change Proposal regarding amendments to clause 3.21.2 of the Wholesale Electricity Market Rules (Market Rules).

This proposal is being processed using the Standard Rule Change Process, described in section 2.7 of the Market Rules.

The key dates in processing this Rule Change Proposal are:



Please note the proposed commencement date is provisional and may be subject to change in the Final Rule Change Report.

## 2. CALL FOR SECOND ROUND SUBMISSIONS

The IMO invites interested stakeholders to make submissions on this Draft Rule Change Report. The submission period is 20 Business Days from the publication date of this report. Submissions must be delivered to the IMO by **5.00pm, Thursday 2 August 2012**.

The IMO prefers to receive submissions by email (using the submission form available on the IMO website: <http://www.imowa.com.au/rule-changes>) to: [market.development@imowa.com.au](mailto:market.development@imowa.com.au)

Submissions may also be sent to the IMO by fax or post, addressed to:

### Independent Market Operator

Attn: Group Manager, Market Development  
PO Box 7096  
Cloisters Square, PERTH, WA 6850  
Fax: (08) 9254 4399

## 3. PROPOSED AMENDMENTS

### 3.1 The Rule Change Proposal

Tesla proposed to correct the current definition of a Consequential Outage, which does not contemplate a situation where advanced notice of a Planned Outage for a piece of network equipment is not provided to a Market Generator. In this circumstance the relevant Market Generator would not have had adequate time or have received sufficient information to apply to System Management for a Planned Outage or Opportunistic Maintenance. The Market Generator would subsequently experience a Forced Outage and be exposed to capacity refunds during the relevant Trading Intervals through no fault of its own.

To address this circumstance Tesla proposed to amend the definition of a Consequential Outage to be either the result of a Forced Outage to another Rule Participant's equipment or the result of a Planned Outage to a Network Operator's equipment.

For full details of the Rule Change Proposal please refer to the IMO Web Site: [www.imowa.com.au/RC\\_2012\\_04](http://www.imowa.com.au/RC_2012_04)

### **3.2 The IMO's Initial Assessment of the Proposal**

The IMO decided to progress the Rule Change Proposal on the basis that Rule Participants should be given an opportunity to provide submissions as part of the rule change process.

## **4. CONSULTATION**

### **4.1 The Market Advisory Committee**

The Market Advisory Committee (MAC) discussed the proposal at its 18 April 2012 meeting. During the meeting Dr Steve Gould presented the discussion paper at the request of Tesla, as Mr Ben Tan was unable to attend the meeting. An overview of the key points raised during the discussion by the MAC is given below:

- Mr Phil Kelloway queried what the original intention of making an impacted Facility subject to a Forced Outage in these circumstances was. The Chair responded that the original Market Rules would have been drafted based on the assumption that sufficient notice of the Planned Outage of the Network Operator would have been provided to the Market Generator to allow them to apply for a Planned Outage (and therefore avoid capacity refunds).
- Mr Stephen MacLean noted his support for the proposed changes and queried the coordination of distribution outages that are impacting on the grid (i.e. during a hot day) and Market Generators who are applying for a Planned Outage but System Management considers that they will be required to stay in service. Mr Kelloway responded that System Management will reach a joint agreement between the Network Operator (whether a transmission or distribution outage) and the Market Generator to find a mutually suitable time for the outage to occur. If there is a dispute over this then System Management will make a determination.
- Mr Peter Huxtable queried whether the proposed changes entirely remove the obligation on the Market Generator to inform System Management that its Facility will be on outage (i.e. apply for a Planned Outage). Ms Fiona Edmonds responded that an impacted Market Generator who was intended to undertake a Planned Outage in the future would still be able to apply to System Management to have this outage at the earlier time that coincides with the network outage. Ms Edmonds confirmed that the proposed changes would create a potential incentive for Market Generators to not inform System Management of outages in these circumstances as they will automatically turn into Consequential Outages.
- Mr MacLean queried whether an approach of System Management automatically issuing a Planned Outage to a Market Generator in these circumstances would be appropriate as it would resolve communication issues and ensure a coordination of the outages. Ms Edmonds responded that she had discussed this option with Mr Tan and he had expressed concern that this approach would result in a higher level of Planned Outages being recorded for the Facility, despite the fact that a number of these outages were actually outside the control of the Facility. Mr MacLean clarified his suggestion that System Management should provide the Market Generator with a notification that the transmission or distribution line will be on a Planned Outage. Mr Kelloway confirmed that currently Western Power was required to provide this notification, but noted that Mr

MacLean's suggestion that System Management would automatically generate an application for the impacted Facility would result in potentially less coordination of outages.

- Ms Wana Yang suggested that prior to approval of a Network Outage System Management should consider whether notification to the impacted generator had been provided.

Overall the MAC agreed that, subject to System Management looking into the approval process for network outages further, the proposed changes should be progressed via the Standard Rule Change Process as the proposed amendments did not seek to amend a manifest error.

Further details are available in the MAC meeting minutes available on the IMO Website: <http://www.imowa.com.au/MAC>

#### 4.2 Submissions received during the first submission period

The first submission period for this Rule Change Proposal was between 26 April 2012 and 7 June 2012. Submissions were received from Alinta Energy, Landfill Gas & Power (LGP), Perth Energy, System Management and Verve Energy.

Alinta Energy, LGP, Perth Energy and Verve Energy supported the Rule Change Proposal on the grounds that a Market Participant should not be exposed to capacity refunds where its Facility is unavailable as the result of a Planned Outage of Network equipment, as such an event is outside of the Market Participant's control. Alinta Energy specifically supported the concept being applied to instances where it is not possible to coordinate Planned Outages for both Facilities. Verve Energy suggested a number of minor additional amendments to the definition of a Consequential Outage and related rules.

System Management supported the intent of the Rule Change Proposal in that it sought to remove the potential for Market Participants to be exposed to capacity refunds for situations beyond their control. However, System Management raised some concerns relating to risks that the proposed amendments would introduce in relation to system planning and coordination of network and generator outages, which it considered could threaten system security.

The assessment by submitting parties as to whether the proposal would better achieve the Wholesale Market Objectives is summarised below:

Submitter	Wholesale Market Objective Assessment
Alinta	None provided.
LGP	Better achieves Wholesale Market Objectives (a) and (d) and consistent with other Wholesale Market Objectives.
Perth Energy	Better achieves Wholesale Market Objectives (b) and (d); no detrimental impact on the other Wholesale Market Objectives identified.
Verve Energy	Better achieves Wholesale Market Objectives (a) and (d).
System Management	If the issues that it has raised in its submission are addressed then the proposed changes will better facilitate the Wholesale Market Objectives. .

A copy of all submissions (in full) received during the first submission period is available on the following IMO Web Page: [http://www.imowa.com.au/RC\\_2012\\_04](http://www.imowa.com.au/RC_2012_04)

### **4.3 The IMO's response to submissions received during the first submission period**

The IMO's response to each of the issues identified during the first submission period is presented in Appendix 1 of this report.

### **4.4 Public Forums and Workshops**

No public forums or workshops were held in relation to this Rule Change Proposal.

## **5. THE IMO'S ASSESSMENT**

In preparing its Draft Rule Change Report, the IMO must assess the Rule Change Proposal in light of clauses 2.4.2 and 2.4.3 of the Market Rules.

Clause 2.4.2 outlines that the IMO *"must not make Amending Rules unless it is satisfied that the Market Rules, as proposed to be amended or replaced, are consistent with the Wholesale Market Objectives"*.

Additionally, clause 2.4.3 states, when deciding whether to make Amending Rules, the IMO must have regard to the following:

- any applicable policy direction from the Minister regarding the development of the market;
- the practicality and cost of implementing the proposal;
- the views expressed in submissions and by the MAC; and
- any technical studies that the IMO considers necessary to assist in assessing the Rule Change Proposal.

The IMO notes that there has not been any applicable policy direction from the Minister or any technical studies commissioned in respect of this Rule Change Proposal. A summary of the views expressed in submissions and by the MAC is available in section 4 of this report.

The IMO's assessment is outlined in the following sub-sections.

### **5.1 Additional Amendments to the Proposed Amending Rules**

Following the first public submission period the IMO has made some additional changes to the proposed Amending Rules to:

- require a Network Operator to provide System Management with a confirmation that it has provided sufficient notification to any impacted Market Generators prior to requesting a Planned Outage or a piece of equipment (Clause 3.18.6). This is in line with the suggestions noted during the April 2012 MAC meeting and will provide greater certainty to System Management that appropriate notification to impacted generators has been provided by the Network Operator;
- clarify that Forced Outages and Consequential Outages also apply for Registered Facilities and generation systems to which clause 2.30B.2(a) applies that have nameplate capacities less than 10 MW (clauses 3.21.1 and 3.21.2); and
- correct a number of minor and typographical issues.

The additional changes made by the IMO to the Amending Rules presented in the Rule Change Proposal are outlined in detail in Appendix 2. The IMO has also amended the drafting originally

proposed by Tesla to correctly reflect the proposed amendments using the current Market Rules as the basis for showing the changes.

## **5.2 Wholesale Market Objectives**

The IMO considers that the Market Rules as a whole, if amended as presented in section 7, will not only be consistent with the Wholesale Market Objectives but will also allow the Market Rules to better achieve Wholesale Market Objective (a).

The proposed amendments will promote economically efficient outcomes by addressing the situation where a Market Generator is penalised by the actions of another Rule Participant (the Network Operator in this case). By allowing a Facility impacted by a network outage to either undertake a Planned Outage (if required) or a Consequential Outage (if planned maintenance is not required or sufficient notice of the network outage was not provided) the IMO considers that the status of Facilities will be appropriately reflected in outage records, while appropriately not requiring the Facility to be subject to capacity refunds in these instances.

The IMO considers that the proposed amendments are consistent with the other Wholesale Market Objectives.

## **5.3 Practicality and Cost of Implementation**

The IMO considers that the proposed amendments do not have any cost implications associated with them. The proposed amendments do not require any changes to the IMO's or System Management's IT systems. There are also no identified costs for Rule Participants.

The proposed changes will result in amendments to the criteria for determining Consequential Outages applied by System Management. The IMO does not consider that this change will have any significant operational impacts on System Management. This is supported by System Management's submission that the proposed amendments do not alter the requirements relating to the provision of information to System Management concerning Consequential Outages. In particular System Management notes that in effect the current MPI process should be sufficient and from a resourcing perspective there should be minimal impact.

## **6. THE IMO'S PROPOSED DECISION**

The IMO's proposed decision is to accept the Rule Change Proposal as modified by the amendments outlined in section 5.1 and specified in Appendix 2 of this report.

### **6.1 Reasons for the decision**

The IMO made its proposed decision on the basis that the Amending Rules:

- better achieve Wholesale Market Objective (a) and are consistent with the remaining Wholesale Market Objectives;
- do not involve any IT system or process changes to implement;
- have the general support of the MAC; and
- have the support of a majority of the submissions received during the first submission period.

### **6.2 Proposed commencement details**

The Amending Rules are proposed to commence at **8:00 AM** on **1 September 2012**.



## 7. PROPOSED AMENDING RULES

The IMO proposes to implement the following Amending Rules (added text, ~~deleted text~~):

3.18.6. The information submitted in an Outage Plan must include:

- (a) identity of the Facility or item of equipment that will be unavailable;
- (b) the quantity of any de-rating where, if the Facility is a generating system, this quantity is in accordance with clause 3.21.5;
- (c) the reason for the outage;
- (d) the proposed start and end times of the outage;
- (e) an assessment of risks that might extend the outage;
- (f) details of the time it would take the Facility or item of equipment to return to service, if required; ~~and~~
- (g) contingency plans for the early return to service of the Facility or item of equipment ("**Outage Contingency Plans**") ~~;~~ and
- (h) if the Outage Plan is submitted by a Network Operator, a confirmation that any Market Generator with a Scheduled Generator or Non-Scheduled Generator impacted by the unavailability of the relevant item of equipment has been informed of the proposed outage by the Network Operator.

### 3.21. **Forced Outages and Consequential Outages**

3.21.1. A Forced Outage is any outage of either a Facility or item of equipment on the list described in clause 3.18.2 or a Facility or generation system to which clause 3.18.2A relates that has not received System Management's approval, including:

- (a) outages or de-ratings for which no approval was received from System Management, excluding Consequential Outages;
- (b) any part of a Planned Outage that exceeds its approved duration; and
- (c) where the Market Participant or Network Operator does not follow a direction from System Management under clause 3.20.1 to return the equipment to service within the time specified in the appropriate contingency plan.

3.21.2. A Consequential Outage is an outage of either a Facility or item of equipment on the list described in clause 3.18.2 or a Facility or generation system to which clause 3.18.2A relates for which no approval was received ~~by~~ from System Management, but which System Management determines:

- (a) was caused by a Forced Outage to another Rule Participant's equipment ~~and would not have occurred if the other Rule Participant's equipment did not suffer a Forced Outage;~~ ~~or~~ ~~and~~
- (b) was caused by a Planned Outage to a Network Operator's equipment and would not have occurred if the Network Operator's equipment did not undertake the Planned Outage.

~~(b) — would not have occurred if the other Rule Participant's equipment did not suffer a Forced Outage,~~

but excludes any outage deemed not to be a Consequential Outage in accordance with clause 3.21.10.

## APPENDIX 1: THE IMO'S RESPONSE TO SUBMISSIONS RECEIVED IN THE FIRST SUBMISSION PERIOD

	Submitter	Issue	Comment/Change requested	IMO Response
1	System Management	<p>System Management is concerned that the proposed amendments will apply to any Outage that is caused by a Planned Outage to a Network Operator's equipment, not only those where no or insufficient advance notice was provided. System Management is concerned that this will encourage behaviour among Market Participants to not request Planned Outages well in time even when sufficient notice of the network outage is provided. This poses a threat to system security due to faulty system planning.</p>	<p>System Management has suggested two approaches to address its concern (as reflected in Issues 1 and 2 of this table). In its submission, it has identified the following approach as preferable based on an administrative efficiency perspective:</p> <p>System Management has suggested that a new Amending Rule be inserted that expressly requires a Market Participant to request a Planned Outage as soon as practicable after receipt of notification from a Network Operator that a Planned Outage has been requested which will prevent the Market Participant from achieving its full capacity. In situations where no notice or insufficient notice is provided the proposed clause 3.21.2(b) as currently drafted would apply. Where advance notice has been provided and a Planned Outage has not been requested by the Market Participant, it will be required to log a Forced Outage</p> <p>Details of System Management's alternative approach are available in the full copy of System Management's submission available on the Market Web Page.</p>	<p>The IMO considers that where sufficient notice is provided of a Planned Outage of a piece of network equipment then the relevant Facility should be incentivised under the Market Rules to apply for a Planned Outage, assuming they wish to undertake planned maintenance. The IMO does not however consider that a Facility in these circumstances should be necessarily forced to undertake a Planned Outage. That is where no maintenance is required for the Facility and the Facility can not export energy due to the Planned Outage of the network then the IMO considers it appropriate that the Facility be subject to a Consequential Outage, regardless of whether advanced notice of the network outage has been provided or not. The IMO notes that under clause 3.21.4 a Market Participant is required to inform System Management <u>as soon as practicable</u> of a Forced Outage or Consequential Outage (the fifteen day requirement reflected in clause 3.21.7 is simply to provide final information). The IMO notes that the proposed drafting of clause 3.21.2 will not impact on these requirements for Forced and Consequential Outages provided under clauses 3.21.4 and 3.21.7.</p> <p>Under the proposed Amending Rules a Facility impacted by an outage of the network will be required to either apply for a Planned Outage or Consequential Outage (where it does not wish to undertake planned maintenance). Both will result in the Facility's exposure to capacity refunds being removed while correctly reflecting the outage status of the Facility, i.e. either undertaking maintenance (Planned Outage) or simply waiting for the network outage to finish so</p>

	Submitter	Issue	Comment/Change requested	IMO Response
				<p>it can reconnect to the grid (Consequential Outage). System Management will be able to take account of these outages when undertaking system planning activities.</p> <p>The IMO has included an obligation for a Network Operator's Outage Plan to include a confirmation that it has informed any Market Generators impacted on by the outage of the equipment if applicable. This will provide assurance to System Management that the impacted Market Generator has received sufficient notification of the outage occurring.</p>
2	System Management	System Management is also concerned that providing the option for Market Participants to lodge a Consequential Outage in circumstances where sufficient notice of the network outage has been provided reduces the incentive for generators to coordinate generator maintenance outages with network outages when reasonable notice is given by the Network Operator. This could result in higher overall unavailability of generation plant, again leading to system security issues.	Refer to Issue 1	<p>Refer to the IMO's response to issue 1 above.</p> <p>Where a Market Participant wishes to bring forward scheduled maintenance to coincide with the Planned Outage of the network equipment the same incentives will still apply under the Market Rules to coordinate the outages. The IMO however notes that a Facility will not be forced to lodge an application for a Planned Outage in these circumstances.</p> <p>The IMO notes that network equipment (both transmission and distribution) that is likely to impact on generation capacity should be included on the Equipment List so as to be subject to the Outage Planning process. The IMO considers that System Management should take into account the impacts on generation availability when initially approving a Planned Outage of network equipment.</p>
3	System Management	System Management submits that this Rule Change Proposal could potentially circumvent the negotiation process	To overcome this risk System Management would like to see express clarification that the Planned Outage of the Network	The IMO does not consider that the revised definition of a Consequential Outage impacts on the obligations of a Network Operator to negotiate

	Submitter	Issue	Comment/Change requested	IMO Response
		<p>provided for in clause 3.18.13(d) in that the proposed clause 3.21.2(b) read on its own requires the Network Operator to only advise System Management that a Market Participant is affected rather than participating in a negotiation.</p> <p>At times of capacity shortfall an outage of the Network Operator's equipment impacting on generation capacity may put at risk sufficient capacity being available to meet the SWIS load demand.</p>	Operator's equipment must be subject to the requirements of clause 3.18.13(d).	with a Market Participant when determining an appropriate time to undertake a Planned Outage. The IMO considers that as currently drafted clause 3.18.13(d) sufficiently covers Network Operators and that no further amendments to this clause are required.
4	Perth Energy	Perth Energy submits that the Rule Change Proposal seems to correct a manifest error in the Market Rules.		<p>The IMO notes Perth Energy's support for the proposed amendments.</p> <p>In response to Perth Energy's suggestion that the Rule Change Proposal corrects a manifest error, the IMO notes the proposal seeks to amend the definition of a Consequential Outage and therefore could not be considered to correct a manifest error. This view was also reflected by MAC members, who supported the progression of the Rule Change Proposal via the Standard Rule Change Process at the April 2012 MAC meeting.</p>
5	Verve Energy	Verve Energy considers that the definition of Consequential Outage could be further amended to cover an additional scenario whereby a Rule Participant's Facility suffers an outage which was caused by a Consequential Outage to another Rule Participant's or a Network Operator's equipment (and the outage cannot be directly attributed to the originating Forced Outage).	<p>Verve Energy has suggested the following additional amendment:</p> <p>3.21.2. A Consequential Outage is an outage of a Facility or item of equipment on the list described in clause 3.18.2 for which no approval was received by System Management, but which System</p>	The IMO notes Verve Energy's recommendation but considers it unnecessary to list explicitly the proposed additional circumstance under which a Consequential Outage would occur. This is because in the situation described by Verve Energy the original Forced Outage (although indirectly) would still be the cause of the outage. This circumstance is already covered by the definition provided in the Market Rules and as such the IMO does not consider that the proposed amendment is necessary.

	Submitter	Issue	Comment/Change requested	IMO Response
			<p>Management determines:</p> <p>...</p> <p>(c) _____ was caused by a <u>Consequential Outage to another Rule Participant's or a Network Operator's equipment and would not have occurred if the other Rule Participant or Network Operator's equipment did not suffer the Consequential Outage.</u></p>	
6	Verve Energy	Verve Energy recommends that the heading of Section 3.21 of the Market Rules be amended to accurately reflect the contents covered in that section.	Verve Energy recommends that the section heading be changed to: <b><u>3.21 Forced Outages and Consequential Outages</u></b>	The IMO agrees with Verve Energy's recommendation and has included this suggestion in proposed Amending Rules.
7	Verve Energy	Verve Energy considers that clauses 3.21.1 and 3.22.2 only refer to clause 3.18.2 when they should refer to both clauses 3.18.2 and 3.18.2A.	<p>Verve Energy recommends the following amendments:</p> <p>3.21.1. A Forced Outage is any outage of <u>either</u> a Facility or item of equipment on the list described in clause 3.18.2 <u>or a Facility or generation system to which clause 3.18.2A relates</u> that has not received System Management's approval, including:</p> <p>...</p>	<p>The IMO agrees that clause 3.21.1 and 3.21.2 relate to both 3.18.2 and 3.18.2A. This is because registered facilities with a name plate capacity of less than 10 MW and generation systems with name plate capacities less than 10MW to which clause 2.30B.2(a) relate are required to schedule Planned Outages in accordance with clause 3.18.2A (although these outages may not be subject to the full outage approval process). The IMO considers that it is also be reasonable that these facilities be subject to:</p> <ul style="list-style-type: none"> <li>• Forced Outages where they fail to apply for a Planned Outage in accordance with the requirements outlined in clause 3.18.2A; or</li> <li>• Consequential Outages where they are</li> </ul>

	Submitter	Issue	Comment/Change requested	IMO Response
			<p>3.21.2. A Consequential Outage is an outage of <u>either</u> a Facility or item of equipment on the list described in clause 3.18.2 <u>or a Facility or generation system to which clause 3.18.2A relates</u> for which no approval was received by System Management, but which System Management determines:</p> <p>...</p>	<p>impacted on by an outage outside of their control</p> <p>The IMO has included these amendments to the proposed Amending Rules.</p>
8	Verve Energy	<p>Verve Energy has also reviewed the PSOP: Facility Outages (resulting from PPCL0023) and considers that no additional amendments are needed in the PSOP to ensure its consistency with the Rule Change Proposal. However, Verve Energy notes that there is an incorrect clause reference in paragraph 12.1 of the PSOP.</p>	<p>Verve Energy suggests that the clause reference be amended to 3.21.4 of the Market Rules. Verve Energy considers this to be a minor amendment.</p>	<p>The IMO notes Verve Energy's review of the PSOP. The IMO also notes Verve Energy's suggestion on the incorrect clause reference. The IMO has provided System Management with details of the identified issue with the PSOP along with recording this suggested edit into the Procedure Change Suggestion Log.</p>

## APPENDIX 2: FURTHER AMENDMENTS TO THE PROPOSED AMENDING RULES

The IMO has made some amendments to the Amending Rules following the second submission period. These changes are as follows (~~deleted text~~, added text):

- 3.18.6. The information submitted in an Outage Plan must include:
- (a) identity of the Facility or item of equipment that will be unavailable;
  - (b) the quantity of any de-rating where, if the Facility is a generating system, this quantity is in accordance with clause 3.21.5;
  - (c) the reason for the outage;
  - (d) the proposed start and end times of the outage;
  - (e) an assessment of risks that might extend the outage;
  - (f) details of the time it would take the Facility or item of equipment to return to service, if required; ~~and~~
  - (g) contingency plans for the early return to service of the Facility or item of equipment ("**Outage Contingency Plans**")- ; and
  - (h) if the Outage Plan is submitted by a Network Operator, a confirmation that any Market Generator with a Scheduled Generator or Non-Scheduled Generator impacted by the unavailability of the relevant item of equipment has been informed of the proposed outage by the Network Operator.

### 3.21. **Forced Outages and Consequential Outages**

- 3.21.1. A Forced Outage is any outage of either a Facility or item of equipment on the list described in clause 3.18.2 or a Facility or generation system to which clause 3.18.2A relates that has not received System Management's approval, including:
- (a) outages or de-ratings for which no approval was received from System Management, excluding Consequential Outages;
  - (b) any part of a Planned Outage that exceeds its approved duration; and
  - (c) where the Market Participant or Network Operator does not follow a direction from System Management under clause 3.20.1 to return the equipment to service within the time specified in the appropriate contingency plan.
- 3.21.2. A Consequential Outage is an outage of either a Facility or item of equipment on the list described in clause 3.18.2 or a Facility or generation system to which clause 3.18.2A relates for which no approval was received ~~by~~ from System Management, but which System Management determines:
- (a) was caused by a Forced Outage to another Rule Participant's equipment and would not have occurred if the other Rule Participant's equipment did not suffer a Forced Outage; or
  - (b) was caused by a Planned Outage to a Network Operator's equipment and would not have occurred if the Network Operator's equipment did not undertake the Planned Outage,



but excludes any outage deemed not to be a Consequential Outage in accordance with clause 3.21.10.