

Jemena Electricity Networks (Vic) Ltd

F-Factor information for the 2016 transitional period

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GLOSSARY

AB	Asset Burnt
AC	Asset Charred
BOM	Bureau of Meteorology
CFA	Country Fire Authority
CMOS	Customer Minutes Off Supply
ESV	Energy Safe Victoria
GIS	Geospatial Information System
HBRA	Hazardous Bushfire Risk Areas
JEN	Jemena Electricity Networks (Vic) Ltd
LBRA	Low Bushfire Risk Areas
MFB	Metropolitan Fire Brigade
NEL	National Electricity (Victoria) Law
OMS	Outage Management System
RIN	Regulatory Information Notice
SCADA	Supervisory Control and Data Acquisition
Transitional period	1 January 2016 to 1 June 2016

INTRODUCTION

SUBMISSION BACKGROUND

1. This submission provides Jemena Electricity Networks (Vic) Limited's (**JEN**) F-Factor information for the transitional period 1 January 2016 to 30 June 2016 (**transitional period**)¹.
2. In the ordinary course of reporting under the F-Factor scheme JEN is required to report F-Factor information under the Regulatory Information Notice (**RIN, notice**) that the AER issued to JEN on 15 November 2012 under Division 4 of Part 3 of the National Electricity (Victoria) Law (**NEL**) (hereafter referred to as the **F-Factor RIN**). The notice issued by the Australian Energy Regulator (**AER**) covered the regulatory year reporting period up to 31 December 2015; given the 2016 regulatory year reporting period has now passed the most recent notice has lapsed. Because of this JEN is under no obligation to report F-Factor information.
3. Despite not having an active-Factor notice in place – in accordance with the request by the AER,² and as far as we can meet the requirements of the lapsed RIN – JEN provides this F-Factor information for the transitional period as outlined below:
 - regulatory templates required in the Microsoft Excel workbook at Appendix A of the F-Factor RIN and is included at Appendix 1-1 of this submission
 - an audit report that specifies that the information is in accordance with Appendix D of the F-Factor RIN and is included at Appendix 1-2 of this submission.
4. Ordinarily when reporting F-Factor information, point (c) of the F-Factor RIN requires JEN to verify, by way of a statutory declaration, the information specified in the F-Factor RIN. As there is no RIN in place JEN cannot attest that the F-Factor RIN is provided in accordance with the requirements and therefore we do not provide a statutory declaration with this submission.

SUBMISSION STRUCTURE

5. JEN has structured this submission consistent with the requirements of the F-Factor RIN regulatory templates, as well as the information requested in section 1.1 of Schedule 1 of the F-Factor RIN. The remainder of this response is structured as follows:
 - Section 1 – Information related to the F-Factor scheme
 - Section 2 – Audit reports

SUBMISSION VALUES AND TERMINOLOGY

6. Unless expressly defined, capitalised terms in this submission have the meanings defined in the AER's F-Factor RIN.

¹ Clause 13 of the F-Factor Scheme Order 2016 sets out transitional arrangements for 2018 revenue adjustments under the Scheme, which apply to the first six months of the 2016 regulatory year.

² Email from AER Director David Chan to JEN staff dated 19 January 2017.

1. INFORMATION RELATED TO THE F-FACTOR SCHEME

7. In this section, JEN responds to Schedules 1 and 2 of the F-Factor RIN for the transitional period 1 January 2016 to 30 Jun 2016.

1.1 INFORMATION REQUIREMENTS

8. Schedule 1 of the F-Factor RIN requires JEN to provide all information required in all regulatory templates, being the worksheets in the Microsoft Excel workbook included by the AER in Appendix A, in accordance with the instructions provided.
9. JEN has provided the information required in the Microsoft Excel templates provided by the AER at Appendix 1-1 of this submission.

1.2 EXPLANATION OF ASSUMPTIONS AND METHODOLOGIES

10. Section 1.2 of Schedule 1 of the F-Factor RIN requires JEN to provide, where applicable, reasons explaining the assumptions and methodologies underlying the information required in the regulatory templates.
11. Below, JEN explains the process it developed to gather and report fire starts from all information sources available from JEN's systems and for reporting in the RIN.
12. The process includes monthly reporting with an annual verification process. The annual verification process relies on an independent interrogation of the two key network outage and asset databases, Customer Minutes Off Supply (**CMOS**) and SAP, which contain the base data for all network outages and asset fault notifications.
13. The processes, procedures and systems applied by JEN in producing the required information are described in section 1.3.

1.3 DESCRIPTION OF THE PROCESSES, PROCEDURES AND SYSTEMS APPLIED IN PROVIDING THE REQUIRED INFORMATION

14. Section 1.4 of Schedule 1 of the F-Factor RIN requires JEN to provide a description of the processes, procedures, measurement systems, information systems and quality control systems applied in providing the information in the regulatory templates.
15. JEN identifies the fires related to its network in one of three ways:
 1. The call centre receives a call (from the public and/or JEN employee) identifying that there is a fire related to JEN's distribution network. The call centre operator will use the Geospatial Information System (**GIS**) interface to locate the network asset associated with the fire, and raise a trouble order in the Outage Management System (**OMS**) with basic details. This is sent to the dispatcher in the JEN coordination centre.
 2. The Country Fire Authority (**CFA**) or the Metropolitan Fire Brigade (**MFB**) receives a call regarding a fire in JEN's distribution area. They will respond to the fire and also notify JEN by calling the JEN coordination centre. The dispatcher will then raise a trouble order in OMS.

3. If a fault is detected by the Supervisory Control and Data Acquisition (**SCADA**) system, it is automatically entered into OMS and the JEN network coordinator/dispatcher raises a trouble order. Once the trouble order has been raised, the dispatcher will send a field crew out to the location of the network fault or fire to inspect any damage, determine the reason for the fault and complete repairs, if needed.
16. As part of the fault rectification, JEN has implemented a standard practice whereby field crews patrol the affected line. During the patrol, field crews are required to identify and report any fire starts.
17. If a fire is identified, the following reporting process is carried out:
 - a) The field crew will notify the dispatcher that a fire has started;
 - b) The dispatcher will update the trouble order with the details of the fire start;
 - c) The dispatcher will raise a SAP notification for the affected asset with the cause codes Asset Burnt (**AB**) or Asset Charred (**AC**);
 - d) Once a significant incident has been logged in OMS, an automated text message is sent to relevant staff to notify them of the incident;
 - e) A Fire Ignition Report is completed, as required, for each fire start and sent to the Network Integrity and Performance team (via internal mail or emailed to the JEN asset performance email address);
 - f) If an outage event also caused a fire, the outage event including the fire start will be captured in the Daily Situation Report and HV Incident Summary Report;
 - g) Upon confirmation of a fire start, a new incident report must be created in OSIRIS and submitted to Energy Safe Victoria (**ESV**). OSIRIS is an electronic fault reporting platform administered by ESV for all Victorian Distribution Network Service Providers (**DNSP**). OSIRIS is an online application which includes a reporting function useful for validation of fire start records at the conclusion of each reporting period.
 - h) An Asset Performance Engineer investigates all fire starts, excluding fires with known causes e.g. Pole top fires. The asset incident investigation report is then completed and distributed internally.
18. Most of the data fields required by the RIN template are captured from JEN computer systems. To capture all data required for the F-Factor RIN reporting, additional data sources used include:
 - The classification of the bushfire risk area is mapped into GIS, based on data obtained from the CFA. These areas are designated by CFA (in consultation with local councils and Jemena) as Hazardous Bushfire Risk Areas (**HBRA**) and Low Bushfire Risk Areas (**LBRA**). The HBRA is predominantly rural and LBRA is predominantly urban, as a function of the amount of open space or infrastructure/buildings respectively;
 - The CFA fire danger rating is obtained from the Bureau of Meteorology (**BOM**) for the day of the fire and recorded by CFA region. The CFA and **BOM** work together in calculating the daily fire danger rating which is then recorded in the BOM database. The ratings referred to here are these: Low-moderate, High, Very high, Severe, Extreme and Code red; *and*
 - The fire danger period declared field is obtained from the CFA for the day of the fire. This field in the template is a Yes/No field, where “Yes” indicates the date of a given fire start event was during a declared fire danger period. These fire danger periods always cover the warmer months and, for the JEN area, this period typically commences in November and ceases in March.
19. JEN’s quality control system includes a monthly process to review all fire start documentation listed above. Event information is collated by Jemena’s control room and email notifications distributed for noteworthy events such as fires and fault related supply interruptions. These notifications are monitored daily and confirmed at the end of each month to ensure all “fire” events have been considered for F-Factor reporting. This information is used to populate the Fire Start Register.

20. Additionally, JEN undertakes a process at the end of each year where all the data in the CMOS and SAP databases is analysed for fire starts. CMOS is filtered to find any outage that resulted in a fire. A query is run on all SAP notifications to interrogate for any instances of key words including burn, fire, smoke and char. During the annual process, all results are compared to the monthly registers to ensure all fire starts have been correctly identified and recorded.

2. AUDIT REPORTS

21. Section 2.1 of Schedule 1 of the F-Factor RIN requires JEN to provide a Regulatory Audit Report in accordance with the requirements set out in Appendix D of the F-Factor RIN.
22. The Regulatory Audit Report requested is provided at Appendix 1-2.

3. APPENDICES

No.	Title
1-1	F-Factor annual reporting template
1-2	Audit Report