Jemena Electricity Networks (Vic) Ltd

Fire start report under F-factor Scheme Order 2016 for the 2016-17 reporting period

Public



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GLOSSARY

AB Asset Burnt
AC Asset Charred

AER Australian Energy Regulator

BOM Bureau of Meteorology
CFA Country Fire Authority

CMOS Customer Minutes Off Supply

DNSP Distribution Network Service Providers

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

OMS Outage Management System

Order F-factor Scheme Order 2016, gazetted 22 December 2016

Reporting period 1 July 2016 to 30 June 2017

SCADA Supervisory Control and Data Acquisition

INTRODUCTION

On 23 June 2017, the Australian Energy Regulator (**AER**) issued a notice (**notice**) to Jemena Electricity Networks (Vic) Ltd (**JEN**) requiring the provision of information under the F-factor Scheme Order 2016 (**the Order**)¹. This information is to be used by the AER to determine a revenue adjustment amount for JEN in accordance with the Order.

JEN must provide the information for the 2016/17 financial year (**reporting period**) requested by the AER by 30 September 2017. This submission provides JEN's response.

JEN has structured this submission as follows:

- Section 1 Information provided in response to section 3 of the AER's notice
- Section 2 Review report
- Section 3 Statutory declaration
- Section 4 Attachments.

¹ Email from AER Director David Chan on 23 June 2017.

INFORMATION PROVIDED

1.1 REGULATORY TEMPLATES

Section 3.1 of the notice requires JEN to provide all information required in all regulatory templates, being the worksheets in the Microsoft Excel workbook attached at Appendix A of the notice, in accordance with the instructions provided in the templates.

JEN provides completed regulatory templates as **Attachment A** to this submission.

1.2 EXPLANATION OF ASSUMPTIONS AND METHODOLOGIES

Section 3.2 of the notice requires JEN to provide an explanation of any assumptions and methodologies used to generate the information provided in the regulatory templates, including any assumptions and methodologies used to determine that the information provided is complete and accurate.

No assumptions were made in the preparation of this fire start report. Below, JEN explains the methodology it employed to gather information from all sources available (network outage and asset databases) for inclusion in the fire start report, and to ensure this information is complete and accurate.

The process includes monthly reporting with an annual verification process. The annual verification process relies on an independent interrogation of the three key network outage and asset databases—OSIRIS, Customer Minutes Off Supply (CMOS) and SAP—which contain the base data for all network outages and asset fault notifications.

The processes, procedures and systems applied by JEN in producing the required information are described in section 1.4.

1.3 REASONS FOR INFORMATION NOT PROVIDED

Section 3.3 of the notice requires JEN, for each instance where the information required in the regulatory templates cannot be provided or is incomplete, to provide reasons explaining why the information cannot be provided or provided in full.

JEN advises that it has provided in full all information required in the regulatory templates. JEN therefore has nothing to report in response to this section.

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

Section 3.4 of the notice requires JEN to identify and provide a description of the processes, procedures, measurement systems, information systems and quality control systems applied in providing the information required in the regulatory templates.

JEN identifies the fires related to its network in one of three ways:

- The call centre receives a call (from the public and/or a 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 network operation and control team.
- 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 network operation and control team. 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 operation and control team 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.

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.

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 may be completed 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.

Most of the data fields required by the RIN template are extracted from JEN's information systems. To capture all data required by the regulatory template, 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 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.

JEN's quality control system includes a monthly process to review all information recorded for each fire start. 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 in preparing JEN's fire start report. This information is used to populate the Fire Start Register.

Additionally, JEN undertakes a process at the end of each year where all the data in the OSIRIS, 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; the checks are performed on the OSIRIS dataset. 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 REPORT

Section 4 of the notice requires JEN to provide a Regulatory Audit Report in accordance with the requirements set out at Appendix C of the notice, and that JEN provides all reports from the Auditor to JEN's management regarding the audit review and/or auditors' opinions or assessment.

JEN provides a review report as Attachment B.

3. STATUTORY DECLARATION

Clause 6(3)(c) of the Order requires that a fire start report must be signed by a director of the DNSP, or other officer of the DNSP as approved by the AER.

JEN provides a statutory declaration by JEN's Managing Director as **Attachment C**.

4. ATTACHMENTS

No.	Title
1	Regulatory templates
2	Review Report (confidential)
3	Statutory declaration (confidential)