


The Board approves the Annual Compliance Report and its submission to ESV in accordance with section 120P(1)(e) of the Electricity Safety Act 1998.

FOR AND ON BEHALF OF JEMENA ELECTRICITY NETWORK (VIC) LIMITED:

date & time 23 Aug 2019 1PM

sign here ►  Managing Director

print name **FRANK TUDOR**

S 120 P Annual Compliance Reports

3.1.1 REFCL Program Status [S120 P (1) a(i)]

NAME REFCL Project Activities		Date Completed	Percentage Completed	Weightings (indicative only)
Initiate	Business Case Commenced		0	5
	Business Case Approval		0	5
Design	Design Commenced		0	5
	Design Complete		0	5
Procurement	No. of REFCL units required	Two (2)		
	REFCL order placed		0	5
	REFCL delivered to site		0	10
Construction-Lines	Line works commenced		0	5
	Line works completed		0	10
Construction-Stations	Station works commenced		0	5
	Station works complete		0	10
Construction-Third Party	No. of affected HV Customer Connections	Two (2)		
	HV customer works commenced		0	5
	HV customer works complete		0	10
Testing/Commissioning	REFCL testing/commissioning commenced		0	5
	REFCL commissioned and operable		0	5
Close-out	REFCL at "required capacity"		0	10
Total Weighted Percentage Complete			0	100

Notes:

Table above reflects the status of REFCL program for the current reporting period (1 August 2018 to 31 July 2019). During this period JEN carried out a joint planning study with AusNet Services, with the aid of a consultant, to determine the REFCL options for Coolaroo (**COO**), a Jemena Zone Substation and Kalkallo (**KLO**), an AusNet Services Zone Substation. A joint planning study is required because of the proximity of the two distribution areas and the significant future load increase in this growth corridor. The draft joint planning study report has been completed and is being reviewed by Jemena and AusNet Services. Once the REFCL option is confirmed, planning for the REFCL work for Coolaroo Zone Substation will proceed.

As a precursor, JEN has installed a partial REFCL device (this is only the Arc Suppression Coil component) at Sydenham (SHM) zone substation (a non-

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mandated station) to identify any learnings which would benefit the installation projects at the mandated zone substations. The objectives of the pilot project were to prove the technical performance of the REFCL/ASC technology and to confirm the cost of installation from both a capital and operational perspective. In the current reporting period the REFCL has been put into service for one week. Jemena continues to engage in discussions with Sydenham zone substation HV customer, Metro Trains (MTM) and Public Transport Victoria (PTV), to allow the REFCL to be put into service for extended period of time.

3.1.2 ELCA Program Status [S120 P (1) a(ii)]

Total HV Electric Line Volumes	At 1 May 2017	At 30 April 2018	Progress over Reporting Period
Bare Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0
Covered or Underground Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0

Note: There are no areas mandated as ELCA in the JEN distribution area. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

3.1.3 SWER ACR Program [S120 P (1) a(iii)]

ACR NAME	FEEDER	Completion Date
Not Applicable	Not Applicable	Not Applicable

Note: JEN does not own or operate any SWER lines. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

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3.2.1 REFCL Program Status [S120 P (1) c(i)]

Coolaroo (COO) REFCL Project Activities		Date Completed	Percentage Completed	Weightings (indicative only)
Initiate	Business Case Commenced	See note 1	0	5
	Business Case Approval	See note 1	0	5
Design	Design Commenced		0	5
	Design Complete		0	5
Procurement	No. of REFCL units required	Two (2) - see note 2		
	REFCL order placed		0	5
	REFCL delivered to site		0	10
Construction-Lines	Line works commenced		0	5
	Line works completed		0	10
Construction-Stations	Station works commenced		0	5
	Station works complete		0	10
Construction-Third Party	No. of affected HV Customer Connections	Two (2)		
	HV customer works commenced	See note 3	0	5
	HV customer works complete		0	10
Testing/Commissioning	REFCL testing/commissioning commenced		0	5
	REFCL commissioned and operable		0	5
Close-out	REFCL at "required capacity"	See note 1	0	10
Total Weighted Percentage Complete			0	100

Notes:

1. To meet the requirements of the Electricity Safety (Bushfire Mitigation) Regulations 2013, JEN is required to install a REFCL at Coolaroo (COO) zone substation by 1 May 2023. Prior to initiating a business case for COO REFCL project, JEN would need to carry out the following tasks assess what needs to be done to ensure the:
 - a. 22kV network of COO will be hardened and ready for REFCL deployment. The original plan for the business case approval has been deferred due to the need to conduct joint planning with AusNet Services. Present plan is to have an approved business case for feeder works by 31 Dec 2019; and
 - b. REFCL at COO will have the *required capacity* as defined in the Regulations. The resent plan is to have an approved business case for zone substation works by 29 March 2020.
2. Based on COO 22kV network information captured in JEN's GIS, it is assessed that COO will require two REFCL units.

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- JEN has already visited the two HV customers supplied from COO and discussed the impact of REFCL on their network.
- JEN owns feeders supplied from the prescribed substation, Kalkallo (KLO) owned by AusNet Services. JEN has carried out a joint planning study with AusNet Services to identify the most cost effective option for the distribution networks supplied from COO and KLO, to ensure the required capacity is met while catering for future load growth in the areas.

3.2.2 ELCA Program Status [S120 P (1) c(ii)]

Total HV Electric Line Volumes	At 1 May 2017	At 30 April 2018	Progress over Reporting Period
Bare Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0
Covered or Underground Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0

Note: There are no areas mandated as ELCA in the JEN distribution area. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

3.2.3 SWER ACR Program [S120 P (1) c(iii)]

ACR NAME	FEEDER	Completion Date
Not Applicable	Not Applicable	Not Applicable

Note: JEN does not own or operate any SWER lines. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

