Jemena Electricity Networks (Vic) Ltd

Response to the Annual Regulatory Information Notice issued 3 February 2016

Basis of Preparation

Information for the 2020 regulatory year

Public

30 April 2021

OVERVIEW

This basis of preparation document has been prepared by Jemena Electricity Networks (Vic) Ltd (**JEN**) in response to the annual Regulatory Information Notice (**RIN**), covering calendar year 2020. RIN data templates and accompanying audit report and review report are due to the Australian Energy Regulator (**AER**) by 30 April 2021. The RIN was served upon JEN by the AER under the National Electricity Law (**NEL**) on 3 February 2016.

Section 1.1(d) of Schedule 1 of the RIN requires JEN to prepare a 'basis of preparation' in accordance with the requirements specified in Schedule 1. JEN's basis of preparation document, for all information provided in the information template (Attachment 1-1 to JEN's submission):

1. Demonstrates how the information provided is consistent with the requirements of the RIN

2. Explains the source from which JEN obtained the information

3. Explains the methodology JEN applied to provide the required information, including any assumptions JEN made

4. Explains, in circumstances where JEN cannot provide actual information:

    a) Why it was not possible for JEN to provide actual information

    b) What steps JEN is taking to ensure it can provide actual information in the future

    c) If an estimate has been provided, the basis for the estimate, including the approach used, assumptions made and reasons why the estimate is JEN's best estimate, given the information sought in the RIN.

JEN considers this basis of preparation complies with requirements for the basis of preparation specified in section 6 of Appendix A of Schedule 2 of the RIN. In particular, this basis of preparation follows a logical structure that enables auditors, assurance practitioners and the AER to clearly understand how JEN has complied with the requirements of the RIN. Each section of this basis of preparation corresponds to a worksheet in the information template.

DEFINITIONS OF ACTUAL AND ESTIMATED INFORMATION

Consistent with the definition contained in the RIN, JEN has applied the following definition of actual information in its response to the RIN:

Information whose presentation is materially dependent on JEN's business records, and whose presentation is not contingent on judgements and assumptions for which there are valid alternatives, which could lead to a materially different presentation in response to the RIN.

Consistent with the definition contained in the RIN, JEN has applied the following definition of estimated information in its response to the RIN:

Information which:

– *Is not materially dependent on JEN's business; and*

– *Is contingent on judgements and assumptions for which there are valid alternatives, where an alternative approach could yield a materially different presentation of the information in response to the RIN.*

GLOSSARY

ABS	Australian Bureau of Statistics
AER	Australian Energy Regulator
BO	Business Objects
CPI	Consumer Price Inflation
ERP	Enterprise Resource Planning
GIS	Geographic Information System
GL	General Ledger
HVI	High Voltage Injection
IMS	Investment Management System
IVR	Interactive Voice Response
JEN	Jemena Electricity Networks (Vic) Ltd
MED	Major Event Day
NER	National Electricity Rules
NEL	National Electricity Law
NERL	National Energy Retail Law
OMS	Outage Management System
PM order	Project Maintenance Order
PTRM	Post-tax Revenue Model
RIN	Regulatory Information Notice
SPFR	Special Purpose Financial Statements
Substitute Determination	The AER determination for JEN's 2016-20 regulatory control period, released on 26 May 2016.
TARC	Total Annual Retail Charges
TB	Trial Balance
WDV	Written Down Value
ZSS	Zone Substation

2.11 LABOUR

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
2.11	Overall comments	Actual	n/a	n/a	JEN uses its ERP system (SAP) to capture costs associated with capital and operating expenditure. PM orders in SAP collect costs based on the activity on which an employee works and the activity to which external costs are associated. These aggregate into Work Breakdown Structures (higher level cost collector) which in turn aggregates the costs at a project level. Master data that is part of the WBS is used to categorise the data into the appropriate Regulatory categories as required by the tables within the templates.	JEN has enhanced its Regulatory Reporting capability by developing a suite of reports that were designed to provide data that facilitates the population of the annual RIN templates. Project Cost information is extracted from SAP's business warehouse (BW) using a data extraction tool, Business Objects (BO) and exported into Excel. BO reports were developed based on a requirement to provide data that will populate the tables within these templates. The reports use underlying data models and queries to report the data. JEN executes the BO Reports that are associated with the templates, based on the report selection criteria. The report output provides	No significant assumptions have been made by JEN for each Table number provided below.

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					JEN uses time writing and assessment cycle functionality in SAP to capture internal labour costs. Where practical and appropriate, all employees time write or are assessed using SAP assessment cycles to an activity/PM order or to a client e.g. JEN. These form the direct costs incurred for a respective activity. External costs are goods receipted against purchase orders issued to external vendors. Purchase orders contain the PM order and WBS Element information. JEN capitalises corporate and network overheads based on a percentage of direct costs. JEN obtained Related Party labour information	the data required by the table in this template. The related party labour, in both opex and capex, is derived from SAP ERP system.	

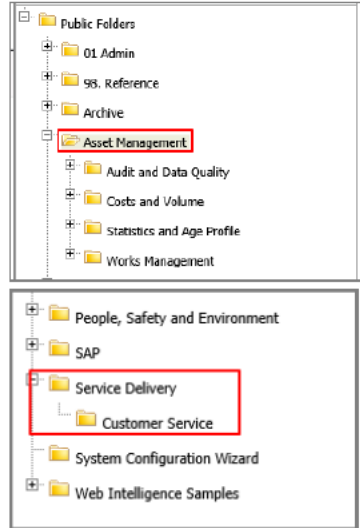| Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					from its Related Entity's SAP transactions.		
2.11.3	Opex	Actual	n/a	n/a	Refer to the 'overall comments' item above. For uncontrollable costs, JEN has sourced data from the SAP ERP general ledger.	Refer to JEN's methodology for the tables within the templates as descr bed above. In addition, JEN identified its uncontrollable costs by extracting the information from opex project data and general ledger accounts, in accordance with the definitions included in the RIN.	n/a
2.11.3	Capex	Actual	n/a	n/a	Refer to the 'overall comments' item above. JEN reviewed its capex project data and is not aware of any uncontrollable costs that meet the definition per the Notice.	Refer to JEN's methodology for the tables within the templates as descr bed above.	n/a

3.6 QUALITY OF SERVICES

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 3.6.5	Quality of Supply Metrics	Actual	n/a	n/a	The sources of information for Over voltage events - due to high voltage injection and Over voltage events - due to lightning are: • High Voltage Injection (**HVI**) Database • Inspector Cards • Outage Management System (**OMS**) The sources of information for Over voltage events - due to voltage regulation or other cause is the Power Quality database managed by the Power Quality Specialists. The source of distr bution substation	For Over voltage events - due to high voltage injection and Over voltage events - due to lightning: • The HVI database is checked for the relevant regulatory period in view. • The database is then checked against the Inspector Cards (each premises that has been checked is issued an inspection card which details any damage that has occurred) • The OMS is then utilised to determine whether the HVI event has occurred due to lightning. For over voltage events - due to voltage regulation or other cause – Verified High Volts complaints from the Power Quality Specialist are reported monthly to the Asset Analytics and Programs team and customers affected are extracted from the respective monthly distribution substation customer	Where there is no access to a premises believed to have been affected by a HVI event, an assumption is made that the premises has sustained damage. If the customer complaint of high volts is verified and the rectification action was "phase change" or "Other" in some cases, 1 customer was counted as affected by the event; for events rectified by other actions such as "Tap Change", all customers supplied from the same distribution substation

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					customer numbers is the network model linked between GIS and SAP. The source of information for Voltage variations events are Power Quality meters at zone substations and at the end of one feeder from each zone substation. Data is downloaded and stored at the PQ meter servers	numbers generated from the ASM497 BO report. Voltage variation events definition refers to Essential Services Commission, "Electricity Distribution Code". Reference voltage applied to zone substation data is set point voltage at individual zone substation.	are assumed to have experienced high volts and therefore the reported number of customers receiving over-voltage - due to voltage regulation or other cause is equal to the number of customers supplied from the distribution substation where high voltage has been verified.
TABLE 3.6.6	Complaints - Technical Quality of Supply	Actual	n/a	n/a	Power Quality Report provided by the Power Quality Specialists	The Power Quality Team provide an annual report on Technical Quality of Supply Complaints. Each complaint is classified as Technical Quality of Supply as per Australian Energy Regulator categories.	n/a
TABLE 3.6.7	Customer Service Metrics	Actual	n/a	n/a	The source of information is SAP ERP and SAP ISU.	SAP Business Objects (**BO**) reports have been developed to cater to the required details in this template. These reports extract data from the	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						JEN Business Warehouse (**BW**) which source the data from the SAP ERP and AMI environments. Data models (joins, associations and merging of data) and queries (filtering of data) have been developed to associate the data from different sources to present in the format required in the template. The logic for the queries for each category has been detailed in the sections below. There are different buttons in the report for each category with different filter criteria. Each button is used to get the final numbers for each category to be reported in the template Data load from SAP ERP and AMI into the business warehouse (BW) occurs every night as a batch job.	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						The reports reside in BO Portal at the below locations:	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 3.6.7.1	Timely Provision of Services	Actual	n/a	n/a	The data is sourced from SAP ERP & AMI Service Orders. Count of every service order with the appropriate filters gives the required result. The difference between Order start date and Order completion date gives the time to complete the order and average of completion time for all orders gives the mean days.	The following BO Report is run to extract the required details for all the categories: • **CSM406 - JEN RIN Connections UG/OH Metrics (CONN 2.5.1, 6.9.1, 3.6.7.1)** The service orders are filtered by: • "Order TECO date" in the date range 01.01.2020 to 31.12.2020 [Calendar Year 2020] • Order Type = ZRSW, ZRNC • Order User Status = Only TECO & CLSD { Excluding [*CANC* (Cancelled), *CARQ* (Cancelled Request), *-NC (Not Completed), *-IR (Initial Request), *NEW (new Orders)] } • Maintenance Activity Type = SW5, SW6, SW7 **Total number of connections not made on or before agreed date** = Total number of GSL Breaches GSL Breaches are calculated using the GSL Flag on the service order which is set programmatically by	No assumptions have been made.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						looking at the Order completion date and Order scheduled date.	
TABLE 3.6.7.2	Timely Repair of Faulty Street Lights	Actual	n/a	n/a	Street Light maintenance works are recorded using SAP Notifications. The majority of the notifications are created by the 24x7 call centre which takes calls from the public regarding lights that require maintenance. The notification is created against the	By extracting the SAP notifications related to specific SAP Public Lighting Codes we can determine the quantity of light replacement and maintenance activities. The following BO Report is run to extract the required details for all the categories: • **ASM461 - JEN RIN Public Lighting (PUB LIGHT 4.1, 3.6.7.2, 6.9.1)** The notifications are filtered by: • "Notification Date" in the date range 01.01.2020 to 31.12.2020 [Calendar Year 2020] • Planner Group = NSP	No assumptions have been made.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					specific light that requires maintenance. This allows the attributes of the public light such as whether it is located on a Major Road or Minor Road, whether it is a GSL eligible light and the number of days to rectify or replace the light to be analysed and reported. For the total number of street lights, the source of data is the count of all in service equipment with equipment type = PUB LIGHT	• Priority = GSL < 2 bus. Days or P/L < 7 bus. days • Notification Status = NOT Deleted (DLFL), NOT CUSN **Average number of days to repair** = Average of breakdown duration for each month recorded on the notifications divided by 24 [total number of hours in a day] **Not repaired by "fix by" date** = Count of overdue Notifications [Malfunction Date greater than Required End Date] For total number of street lights, the following BO Report is run to extract the required details for all the categories: • **ASM430 JEN RIN Equipment In Service (PHYS ASSETS 3.5)** The equipment are filtered by: • "Date Installed" in the date range 01.01.1900 to 31.12.2020 [Calendar Year 2020] • Equipment Type • Equipment Characteristics	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						The count includes Public Lighting Poles and Luminaires.	
TABLE 3.6.7.3	Call Centre Performance	Actual	n/a	n/a	The source of information for call centre performance is the IVR at Startek.	The information is provided to JEN by its contractor Startek.	No assumptions have been made.
TABLE 3.6.7.4	Number of Customer Complaints	Actual	n/a	n/a	The source of information for customer complaints is the SAP Hybris Cloud for Customer Database.	Each complaint is classified as per AER categories. The data is then extracted from the database for the reporting period.	No assumptions have been made.

3.6.8 NETWORK-FEEDERS

Base information			Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 3.6.8	Network Feeder Reliability	Actual Except for various information relating to SA shared Powercor feeders (see next column)	There are four SA shared Powercor feeders. There are no JEN monitoring devices at the point of connections on the four SA feeders. Maximum demand for SA2, SA6, SA10 and SA12 is actual. Load factor for all 4 SA feeders are assumed to be the same as SHM feeder based on nature of load. Power factor for JEN shared SA sections are estimates. Therefore the energy not supplied (planned and unplanned) for the 4 SA feeders is estimated.	Further analysis will be performed to determine whether the estimated load factor and power factor for SA feeders can be derived by available actual data.	Extract data from the Outage Management System OSI PI system for feeder demand data Maximum demand for SA12 is sourced from Powercor from their ACR at the point of connection. Maximum demand for SA2, SA6 and SA10 is aggregated from the AMI 5 minute-read meter data.	Verified and corrected data in CMOS database Refer to procedures JEN PR 0502 Section 3.2.3.1. Feeder MD, load factor and zone substation power factor refer to: JEN WI 0502; JEN PR 0507; JEN PR 0508 Feeder MD is sourced from the forecast. This data comes from OSI PI and is manually adjusted for abnormals. Load factor = feeder average demand / feeder MD. Average demand is sourced from OSI PI and is manually adjusted for significant abnormals. ZSS power factor comes from the forecast. This data comes from OSI PI or IMS and is manually adjusted for abnormals.	A factor of 0.3 has been applied to Energy not supplied – Planned assuming customers have been notified and energy consumption would mostly be shifted for the outage duration and only appliances that run continuously cannot be operated during the outage.

3.6.9 NETWORK RELIABILITY – PLANNED OUTAGES

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 3.6.9.1	Planned Minutes off Supply (SAIDI)	Actual	n/a	n/a	Extract data from the Outage Management System	Verified and corrected data in CMOS database. Refer to procedures JEN PR 0502 Section 3.2.3.1. SAIDI associated with outages greater than 1 minute duration was calculated using the following equations: For each of the network categories applicable to JEN – Urban and Rural short: Total planned SAIDI = sum of Planned minutes off supply per category divided by average customer numbers of the respective category in Table 6.2.4. Planned SAIDI in this table includes Major Event Days (**MED**).	n/a
TABLE 3.6.9.2	Planned Interruptions to Supply (SAIFI)	Actual	n/a	n/a	Extract data from the Outage Management System	Verified and corrected data in CMOS database. Refer to procedures JEN PR 0502 Section 3.2.3.1.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						SAIFI associated with outages greater than 1 minute duration was calculated using the following equations: For each of the network categories applicable to JEN – Urban and Rural short: Total planned SAIFI = sum of Planned customer interruptions per category divided by average customer numbers of the respective category in Table 6.2.4. Planned SAIFI in this table includes MEDs.	

6.2 STPIS RELIABILITY

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 6.2.1	Unplanned Minutes off Supply (SAIDI)	Actual	n/a	n/a	Extract data from the Outage Management System (**OMS**)	For 1 January 2020 to 6 October 2020, data was extracted from OMS using the Cognos reporting tool monthly. For 6 Oct 2020 to 31 December 2020, data was extracted from the new OMS using BO OMS324 report. Verification and correction of data is as per the procedures outlined in Section 3.1.1 to 3.1.4 of procedure JEN PR 0502 and stored in the CMOS (Customer Minutes off Supply) database. Consistent with our change to our customer number methodology (described below), the data extracted from OMS excludes unmetered supply points. Annual data extraction from the CMOS database for processing Annual Reporting RIN Template 6.2 is outlined in procedure JEN 0502 Section 3.2.3.1.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						SAIDI associated with outages greater than 1 minute duration was calculated using the following equations: For each of the network categories applicable to JEN – Urban, Rural short and Whole network: Total unplanned SAIDI = sum of Unplanned minutes off supply per category divided by average customer numbers of the respective category in Table 6.2.4 below. SAIDI (after removing excluded events and MED) applies the same principle of calculation of total unplanned SAIDI with unplanned customer minutes off supply associated with the excluded events and MED subtracted from the total unplanned minutes off supply before dividing by customer numbers. Excluded events and MED are defined as per STPIS Clause 3.3 (a) and 3.3 (b) respectively.	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 6.2.2	Unplanned Interruptions to Supply (SAIFI)	Actual	n/a	n/a	Extract data from the Outage Management System	For 1 January 2020 to 6 October 2020, data was extracted from OMS using the Cognos reporting tool monthly. For 6 Oct 2020 to 31 December 2020, data was extracted from the new OMS using BO OMS324 report. Verification and correction of data is as per the procedures outlined in Section 3.1.1 to 3.1.4 of procedure JEN PR 0502 and stored in the CMOS (Customer Minutes off Supply) database. Consistent with our change to our customer number methodology (described below), the data extracted from OMS from May 2019 excludes unmetered supply points. Annual data extraction from the CMOS database for processing Annual Reporting RIN Template 6.2 is outlined in procedure JEN 0502 Section 3.2.3.1 SAIFI associated with outages greater than 1 minutes duration was calculated using the following equations:	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						For each of the network categories applicable to JEN – Urban, Rural short and Whole network: Total unplanned SAIFI = sum of Unplanned customer interruptions per category divided by average customer numbers of the respective category in Table 6.2.4 below. SAIFI (after removing excluded events and MED) applies the same principle of calculation of total unplanned SAIFI with unplanned customer interruptions associated with the excluded events and MED subtracted from the total unplanned customer interruptions before dividing by customer numbers. Excluded events and MED are defined as per STPIS Clause 3.3 (a) and 3.3 (b) respectively.	
TABLE 6.2.3	Unplanned Momentary Interruptions to Supply (MAIFI)	Actual	n/a	n/a	Extract data from the Outage Management System	For 1 January 2020 to 6 October 2020, data was extracted from OMS using the Cognos reporting tool monthly. For 6 Oct 2020 to 31 December 2020, data was extracted from the new OMS using BO	MAIFI is momentary interruptions per event, for auto circuit reclosers that have multiple recloses in one reclose sequence,

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						OMS324 report. Verification and correction of data is as per the procedures outlined in Section 3.1.1 to 3.1.4 of procedure JEN PR 0502 and stored in the CMOS (Customer Minutes off Supply) database. Consistent with our change to our customer number methodology (described below), the data extracted from OMS from May 2019 excludes unmetered supply points. Annual data extraction from the CMOS database for processing Annual Reporting RIN Template 6.2 is outlined in procedure JEN 0502 Section 3.2.3.1. MAIFI associated with outages less than or equal to 1 minute duration was calculated using the following equations: For each of the network categories applicable to JEN – Urban, Rural short and Whole network: Total MAIFI = sum of momentary customer interruptions per category divided by average customer	the momentary customer interruptions are counted as per reclose sequence but not the sum of each individual reclose within the reclose sequence. This is consistent with JEN's application of the principle of MAIFI in JEN's regulatory reporting in previous years and Victorian reporting.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						numbers of the respective category in Table 6.2.4 below. MAIFI (after removing excluded events and MED) applies the same principle of calculation of Total MAIFI with momentary customer interruptions associated with the excluded events and MED subtracted from the total momentary customer interruptions before dividing by customer numbers. Excluded events and MED are defined as per STPIS Clause 3.3 (a) and 3.3 (b) respectively.	
TABLE 6.2.4	Distribution Customer Numbers	Actual	n/a	n/a	The source of Network customer numbers is from SAP ISU and SAP ERP. Urban and rural short feeder customer numbers are extracted from the network model which is derived from the	JEN uses the Business Objects report ASM497 to report distribution customer numbers based on active NMIs excluding unmetered supply points for the customer reporting required under the AER's revised STPIS to apply to JEN for the 2021-2026 regulatory period (commencing 1 July 2021), under which unmetered supply points are specifically excluded.	Although the total number of customers from the Geographic Information System network model does not exactly match the total network customer numbers extracted from SAP ISU and SAP ERP systems, the discrepancy is only 0.58% and is immaterial. Therefore

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					Geographic Information System	Customer numbers by feeder is extracted from ASM497 report. Each customer in SAP is linked to a supply point modelled in GIS and in turns, linked to the feeder. The number of customers by feeder is extracted at the first business day of each month. Customers at the start of the period = customer numbers at the end of the last day of the previous reporting year (i.e. start of first day of the current reporting year and Customers at the end of the period = customer numbers at the last day of the reporting year. The definitions of urban and rural short feeders (as set out in the STPIS scheme) have been used to determine the categorisation of each feeder for the current reporting year and adjusted based on the nature of use of the feeder at the end of the year. JEN PR 0502 Section 3.2.3.1 outlined the methodology that JEN has applied to calculate urban and rural customer numbers which basically	the calculated urban and rural short customer numbers are considered as Actual.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						derives the urban/rural short customer split ratio from the categorised feeder customer numbers at the start of the period and at the end of the period. The ratios are then applied to the actual network customer numbers respectively to calculate the number of urban and rural short customers.	

6.6 STPIS CUSTOMER SERVICE

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 6.6.1	Telephone Answering	Actual	n/a	n/a	The Interactive Voice Response (**IVR**) system operated by the Startek Call Centre is the source of information. The statistics are reported to JEN monthly.	Startek sends the Daily Faults Telephony Summary Report to JEN Customer Service monthly. This data is analysed for the total number of calls i.e • Calls to call centre fault line - total number – NCO Monthly Total • Calls to fault line forwarded to an operator – ACC Monthly Total • Calls to fault line answered within 30 seconds – ANS < Threshold • ESC Calls to fault line, average waiting time before call answered (seconds) – ESC ASA • Calls abandoned - Abd • Call centre - number of overload events – Startek will advise us if an overload event occurred. • ABD< 30secs (Abd < Threshold) JEN PR 0503 Section 3.3.1 outlines the procedure for calculating the telephone answering performance based on the AER definition and is also explained below:	In the 2011-2013 Annual RIN the Cells D9 and D10 have been reported under the heading of "Total - after removing MED". Since 2014, the equivalent Cells C11 and C12 in the Annual RIN has the heading label as "Total - after removing excluded events". Given that this is the STPIS related item, JEN assumed that the intent is consistent with Clause 5.4 (a) of the Service Target Performance Incentive Scheme (November 2009) thus the data reported is Total - after removing excluded events and MED" to be precise.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						Verify data provided by Customer Service in the "JEN Daily 2020" worksheets of the 2020 Faults GOS JEN only" Excel workbook by performing checksum as well as comparing to previous year for: 1. Total number of calls a) Number of calls received = sum(Calls to fault line forwarded to an operator) – sum(ABD< 30secs) b) Number of calls answered within 30 seconds = sum(ANS<30secs) 2. Number of calls after removing excluded events: This data entry provides the annual telephone answering performance excluding the performance on Excluded Events and Major Event Dates (**MED**). Excluded Events and MED are defined as per STPIS Clause 3.3 (a) and 3.3 (b) respectively. There were no STPIS Clause 3.3 (a) and 3.3 (b) exclusions in 2020.	

6.7 STPIS DAILY PERFORMANCE

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
Table 6.7.1	Daily Performance Data - Unplanned (Customer Service)	Actual	n/a	n/a	The Interactive Voice Response (**IVR**) system operated by the Startek Call Centre is the source of information. The statistics are reported to JEN monthly.	Number of calls received and Number of calls answered in 30 seconds are extracted from the "JEN Daily 2020" worksheet of the Startek report. Number of calls answered in 30 seconds is under the heading ANS < Thres. This column of data is copied directly into the relevant column in Table 6.7.1 including the performance on MED. Number of calls received is calculated based on the AER definition in the STPIS that is excluding: • calls to payment lines and automated interactive services • ACC is the direct measure of calls to fault line forwarded to an operator • calls abandoned by the customer within 30 seconds of the call being queued for response by a human operator = ACC minus Abd < Threshold	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 6.7.1	Daily Performance Data – Unplanned (MAIFI)	Actual	n/a	n/a	Extract data from the Outage Management System (OMS)	For 1 January 2020 to 6 October 2020, data was extracted from OMS using the Cognos reporting tool monthly. For 6 Oct 2020 to 31 December 2020, data was extracted from the new OMS using BO OMS324 report. Verification and correction of data is as per the procedures outlined in Section 3.1.1 to 3.1.4 of procedure JEN PR 0502 and stored in the CMOS (Customer Minutes off Supply) database. Annual data extraction from the CMOS database for processing Annual Reporting RIN Template 6.7 is outlined in procedure JEN 0502 Section 3.2.3.2. MAIFI based on the AER definition (outage duration of 1 minutes or less) distinguishing unplanned and momentary were calculated using the following equations:	MAIFI is momentary interruption per event, for auto circuit reclosers that have multiple recloses in one reclose sequence, the momentary customer interruptions are counted as per reclose sequence but not the sum of each individual reclose within the reclose sequence. This is consistent with JEN's application of the principle of MAIFI in JEN's regulatory reporting in previous years and Victorian reporting.

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						For each of the network categories applied to JEN – Urban, Rural short and Whole network: MAIFI = sum of respective daily quantity per category divided by average customer numbers of the respective category in Table 6.2.4. MAIFI (after removing excluded events) applies the same principle of calculation of the daily total above with the respective quantity – momentary customer interruptions associated with the excluded events per category (refer to STPIS Section 3.3 (a)) subtracted from the total before dividing by the customer numbers per category.	

6.8 STPIS EXCLUSIONS

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 6.8.1	STPIS Exclusions	Actual	n/a	n/a	Extract data from the Outage Management System	Extract verified data from CMOS (Customer Minutes off Supply) database by modifying the date range of the queries in the database. Run Queries – a) Exclusions-Upstream 1_Cat and b) Exclusions-Upstream 2_Cat. If the query runs no events and no data exists, the template 6.8 is left blank. An excluded event which is referring to upstream event in JEN is defined in STPIS Section 3.3 (a).	n/a

6.9 STPIS GSL

Base information		Data Type			Population approach		
Table number	**Table name**	**Actual or Estimated**	**Basis for, approach used and assumptions made for estimates, and reasons why best estimate**	**If estimate, actions to report actual data in future**	**Source**	**Methodology**	**Assumptions**
TABLE 6.9.1	Guaranteed Service Levels - Jurisdictional GSL Scheme	Actual	n/a	n/a	Appointments and Connections - SAP Reliability of supply – JEN Outage Management System Street lights – SAP Notifications are the source of the number of public lighting faults Planned interruptions - 4 business days' notice not given – data are captured on a daily basis in Excel spreadsheet and reported monthly in the Service Delivery Monthly Report	<u>Appointments and Connections</u> The following BO Report is run to extract the required details: • CSM 406 – JEN RIN Connections • CSM 408 – JEN RIN Service Orders Volume Metrics (STPIS GSL Appointments 6.9.1) The service orders are filtered by: – "Order TECO date" in the date range for the regulatory year – Order User Status = AS/##; ABVR/B-CO; CORP; CREG; F-CO; Only TECO & CLSD { Excluding [*CANC* (Cancelled), *CARQ* (Cancelled Request), *-NC (Not Completed), *-IR (Initial Request), *NEW (new Orders)] }	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						– Confirmation Work Centre – set filter to exclude JEN_OAO (Internal Service orders) and REM_INT (Remote energisation SO after completion of Direct New connection application) – Filter out Ord Finish Date earlier than the reporting year. <u>GSL Connections</u> The following BO Report is run to extract the required details: • CSM 406 – JEN RIN Connections Where the GSL flag missed is populated with a Y, the Ord Scheduled date and Ord Actual Finish date are used to calculate the no of days missed by. Appointments and Connections (New Connections) - refer to JEN Monthly Reporting – JEM-P-4900.	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions

						Reliability of Supply
						
						• Outage data from 1 January 2020 to 6 October 2020 is obtained from the OUBI database in the JEN Outage Management System by using Oracle SQL Developer. Outage data from 6 October 2020 to 31 December 2020 is obtained from the OSI database in the new JEN Outage Management System by using OMS324 BO report.
						
						• This data is then verified for outliners with reference to AMI Outage Report ASM480 and CMOS database
						
						• The data is then imported to a MS Access database where queries are established to extract by NMI:
						
						  – Cumulative unplanned sustained outage frequency
						
						  – Cumulative unplanned sustained outage duration	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						– Cumulative momentary outage frequency – Single unplanned sustained outage with duration >12 hours and <=20 hours • The outputs are saved in MS Excel. • For the single outage duration data, each NMI outage event is mapped to the supply feeder using the CMOS database to identify whether Urban or Rural. Further verification with reference to AMI Outage Report ASM480 and CMOS database to identify elig bility for payment. • GSL volume and payment amount by each category are then filtered and calculated as per the Electricity Distribution Code Clause 6.3. Street lights • Street lights (total number) is extracted from the Business Object (BO) report ASM420 JEN	

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						Network Asset Statistics. Key filters include Equipment Status = INSV (in-service) and Tariff Type = 1 (Standard) • Other Street lights items in 6.9.1 are generated from the BO report ASM461 – JEN RIN PUBLIC LIGHTING Planned interruptions - 4 business days' notice not given Verify planned interruption data provided by Operations Planning in the "AER Planned interruptions reporting 2011-19_JEN" Excel workbook by performing checksum as well as comparing to previous year. Planned interruptions - 4 business days' notice not given – refer to COC PR 9667	
TABLE 6.9.2	Guaranteed Service Levels - AER GSL Scheme	n/a	n/a	n/a	n/a	n/a	n/a

7.8 AVOIDED TUOS PAYMENTS

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 7.8.1	Avoided TUOS Payments	Actual	n/a	n/a	Invoices sourced from JEN's billing system.	Reflects the value of payments to two generators. The value of these payments has been captured via the actual invoices.	n/a

7.10 JURIS SCHEME

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 7.10.1	Jurisdictional Scheme Payments	Actual	n/a	n/a	The relevant General Ledger account for the Premium Solar Feed-in Tariff Scheme (**PFIT**) jurisdictional scheme.	JEN captures payments for the PFIT solar rebate scheme in a specific GL account. Data from this GL account is used to populate the template.	n/a

7.11 DMIS-DMIA

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 7.11.1	DMIA – Projects Submitted For Approval	Actual	n/a	n/a	Information is sourced from SAP, the ERP system that JEN uses to capture financial information. The relevant Business Objects (BO) report is: OPR401 – JEN RIN - Project Costs - Base Analytical Report. The projects eligible for DMIA /DMEGIA are also identified manually.	Data is extracted from JEN's cost collectors and the methodology included analysing all of the SAP Plant Maintenance (PM) cost collectors that were assigned to DMIA projects. This is a standard SAP report, which is filtered based on the actual projects included in the DMIA scheme for 2020. The following projects are included in the DMIA scheme for 2020: • Behavioural demand response trial (residential) in collaboration with an energy retailer • C&I customer demand response trial (testing demand response service provider market response) • Dynamic Electric Vehicle Charging Trial Considering the total DMIA availability of only $1M over the five years, not all costs incurred against an initiative are claimed under DMIA in order to accommodate other initiatives and to maximise learnings.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						Network overheads have been excluded from expenditure, as the requirement is to disclose direct costs only.	

7.12 SAFETY AND BUSHFIRE

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 7.12.1	Safety and Bushfire Related Asset Group Definitions and Allocation Basis	n/a	n/a	n/a	JEN's categorisation of safety and bushfire related programs as reported annually to the AER.	All programs completed in 2020 under safety and bushfire related expenditure is tabulated. As per instructions from the AER received by JEN on 25 Oct 17, only items in tables relating to 'installation of GFN and associated equipment at zone substations' have been reported in this template.	n/a
TABLE 7.12.2.1	Bushfire Related Number of Activities	Actual	n/a	n/a	JEN's Geographical Information System (**GIS**) records installation date of assets on the network, which is in turn, maintained in JEN's ERP system, SAP. Relevant Business Objects (**BO**) report is:	Installation date of GFN and associated equipment at zone substations is recorded in JEN's SAP ERP system. SAP BO reports are used to extract the required details in this template. These reports extract data from the JEN Business Warehouse (**BW**) which source the data from the SAP ERP and AMI environments. The fields and filters used in these reports are documented and can be used to review accuracy and validity of results presented.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					ASM434 JEN RIN Equipment In Service (SAFETY & BUSHFIRE 7.12)	Buttons in the left margin of BO report can be used to access specific fields where data and content is filtered to the relevant criteria. To access the BO reports, select Business Objects from the Systems tab on the Jemena intranet.	
TABLE 7.12.2.2	Bushfire Related Expenditure	Actual	n/a	n/a	Information is sourced from SAP, the ERP system that JEN uses to capture project information. Relevant BO report is: OPR401 – JEN RIN - Project Costs - Base Analytical Report	SAP BO reports are used to extract the required details in this template. These reports extract data from the JEN BW which source the data from the SAP ERP and AMI environments. The fields and filters used in these reports are documented and can be used to review accuracy and validity of results presented. Buttons in the left margin of BO report can be used to access specific fields where data and content is filtered to the relevant criteria.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						To access the BO reports, select Business Objects from the Systems tab on the Jemena intranet.	
TABLE 7.12.2.3	Bushfire Related Unit Costs	Actual	n/a	n/a	Unit costs are calculated by dividing the expenditure reported in Table 7.12.2.2 by the volume reported in 7.12.2.1.	For bushfire related programs, unit rates are calculated based on nominal expenditure during the relevant regulatory year divided by the volume. In cases where the volume reported for the relevant regulatory year is zero, JEN has entered '0' as the unit cost.	n/a
TABLE 7.12.2.4	Bushfire Related Contingent Project Applications - Volumes Approved	n/a	n/a	n/a	This table is not applicable as JEN did not have any contingent project applications for 2020. Units and volumes have therefore been reported as zero in this table.	n/a	n/a
TABLE 7.12.2.5	Bushfire Related Contingent Project Applications - Expenditure Approved	n/a	n/a	n/a	This table is not applicable as JEN did not have any contingent project applications for	n/a	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					2020. Expenditure has therefore been reported as zero in this table.		
TABLE 7.12.3.1	Safety Related Number of Activities	Actual	n/a	n/a	JEN does not have any activities to report in this table, as the installation of GFN and associated equipment at zone substations which JEN has undertaken has been reported as a bushfire related activity in Table 7.12.2.1.	n/a	No assumptions were made for this variable as expenditure was not incurred in 2020.
TABLE 7.12.3.2	Safety Related Expenditure	Actual	n/a	n/a	JEN does not have any expenditure to report in this table, as the expenditure on installation of GFN and associated equipment at zone substations which	n/a	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					JEN has undertaken has been reported as bushfire related expenditure in Table 7.12.2.2.		
TABLE 7.12.3.3	Safety Related Unit Costs	Actual	n/a	n/a	JEN does not have any unit costs to report in this table, as the installation of GFN and associated equipment at zone substations which JEN has undertaken has been reported as bushfire related in Table 7.12.2.3.	n/a	n/a
TABLE 7.12.4	Safety Improvement Outcomes Reported to ESV	Actual	n/a	n/a	As required by ESV JEN reports installation progress of GFN as prescribed in the Bushfire Mitigation regulations.	Installation date of GFN and associated equipment at zone substations is recorded in JEN's ERP system. SAP BO reports are used to extract the required details in this template. These reports extract	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					The required volume and progress information is captured in JEN's GIS and SAP systems.	data from the JEN BW which source the data from the SAP ERP and AMI environments. The fields and filters used in these reports are documented and can be used to review accuracy and validity of results presented. Buttons in the left margin of BO report can be used to access specific fields where data and content is filtered to the relevant criteria. To access the BO reports, select Business Objects from the Systems tab on the Jemena intranet.	
TABLE 7.12.5	Safety Improvement Outcomes Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a

8.1 INCOME

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.1; 8.1.1.2; 8.1.1.3	Audited statutory accounts column	Actual	n/a	n/a	The audited financial statements have been prepared to assist Jemena Electricity Networks (Vic) Ltd in meeting the financial reporting requirements stated in paragraph 9.1 of Schedule 1 of the Regulatory Information Notice (**RIN**) issued by the AER on 3 February 2016. The data agrees to JEN's audited financial statements for the current reporting year and the underlying trial balance (TB) and supporting documents.	JEN has enhanced its Regulatory Reporting capability by developing a suite of reports that were designed to provide data that facilitates the population of the annual RIN templates. General ledger data are extracted from SAP's business warehouse (**BW**) using a data extraction tool, Business Objects (**BO**) and exported into Excel. BO reports were developed based on a requirement to provide data that will populate the tables within these templates. The reports use underlying data models and queries to report the data. JEN executes the BO Reports that are associated with the templates, based on the report selection criteria. The report output provides	n/a

Base information		Data Type		Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						the data required by the table in this template.	
	Adjustments column	Actual	n/a	n/a	Various adjustments to the audited financial statements to arrive at the JEN distribution business' regulatory amounts to reflect the AER's RIN submission guidelines that differ from recognition or measurement requirements of Australian Accounting Standards.	The adjustment column is part of a reconciliation required by the notice. Refer to section 1.2 of Schedule 1 of the JEN submission for this reconciliation.	n/a
	Distribution Business column	Actual	n/a	n/a	This column summates the regulatory categories in this template excluding unregulated services and negotiated services.	n/a	n/a
	Standard Control Services column	Actual	n/a	n/a	JEN agreed this section to audited financial statements and underlying TB and supporting documents.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
	Alternative Control Services - Public Lighting column	Actual	n/a	n/a	JEN agreed this section to audited financial statements and underlying TB and supporting documents.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
	Alternative Control Services – Other – Connection Services column	Actual	n/a	n/a	JEN agreed this section to audited financial statements and underlying TB and supporting documents.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
	Alternative Control Services – Other – Metering Services column	Actual	n/a	n/a	JEN agreed this section to audited financial statements and underlying TB and supporting documents.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
	Alternative Control Services – Other – Ancillary Network Services column	Actual	n/a	n/a	JEN agreed this section to audited financial statements and underlying TB and supporting documents.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
8.1.1.1	REVENUE Distribution Revenue	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.1	REVENUE Cross Boundary Revenue	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to the underlying TB and supporting table 9.5.3 Cross Boundary Network Charges in the RIN.	n/a
8.1.1.1	REVENUE Contributions	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	Contr butions are not carried into RIN in accordance with method approved in the final 2016-20 Distr bution Determination.	n/a
8.1.1.1	REVENUE Interest Income	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
8.1.1.1	REVENUE Jurisdictional Scheme Amounts	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB. Jurisdictional Scheme Amounts are embedded within TUoS Revenue in Audited Statutory Column. Jurisdictional Scheme Amounts are reported separately under the	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					Distribution Business column.		
8.1.1.1	REVENUE TUoS Revenue	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB. TUoS Revenue includes Jurisdictional Scheme Amounts in Audited Statutory Column. TUoS Revenue in Distribution Business column is reported separately net of Jurisdictional Scheme Amounts.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
8.1.1.1	REVENUE F-Factor	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents.	n/a
8.1.1.1	REVENUE Other Revenue	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to the underlying TB and supporting documents. Negotiated and unregulated revenue are not carried into RIN.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.2	EXPENDITURE TUoS Expenditure	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB. TUoS Expenditure includes Avoided TUoS Expenditure in Audited Statutory Column. TUoS Expenditure in Distr bution Business column is reported separately net of Avoided TUoS Expenditure.	JEN has ensured that the items within the income statement link to supporting tables 9.5.1 TUoS Charges and 9.5.2 Transmission Connection Fees in the RIN.	n/a
8.1.1.2	EXPENDITURE Avoided TUoS Expenditure	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB. Avoided TUoS Expenditure is embedded within TUoS Expenditure in Audited Statutory Column. Avoided TUoS Expenditure is reported separately under the Distribution Business column.	JEN has ensured that the items within the income statement link to supporting table 9.5.4.1 Avoided Transmission Costs in the RIN.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.2	EXPENDITURE Cross Boundary Expenditure	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to supporting table 9.5.3 Cross Boundary Network Charges in the RIN.	n/a
8.1.1.2	EXPENDITURE Jurisdictional scheme amounts	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to supporting template 7.10 for Jurisdictional schemes in the RIN.	n/a

Base information		Data Type		Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.2	EXPENDITURE Depreciation	Actual	n/a	n/a	Percentage allocation is derived from the CY12 deprecation by regulatory category, as disclosed in the RIN. The total actual depreciation for the current reporting year is sourced from the audited financial statements. JEN amends the audited financial statements depreciation by adjusting for the depreciation impact of customer contr butions and depreciation that was not reduced against the RAB but adjusted for acquisition accounting purposes.	JEN allocated statutory depreciation across the regulatory categories, by deriving a percentage of that sourced from the CY12 RIN. This RIN had a requirement to disclose depreciation across the regulatory categories. JEN has continued to apply this methodology in its subsequent RIN submissions.	n/a
8.1.1.2	EXPENDITURE Finance Charges	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	Finance charges are not incurred by JEN and are not carried into RIN.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.1.1.2	EXPENDITURE Loss from sale of Fixed Assets	Actual	n/a	n/a	JEN agreed this section for the current reporting year audited financial statements and the underlying TB.	Loss from sale of Fixed Assets related to unregulated and other excluded expenditure are not carried into RIN.	n/a
8.1.1.2	EXPENDITURE Operating and Maintenance expenditure	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	JEN has ensured that the items within the income statement link to supporting template 8.4 Opex in the RIN.	n/a
8.1.1.3	PROFIT Income Tax Expense	Actual	n/a	n/a	JEN's audited financial statements for the current reporting year and the underlying TB.	Income tax charges are not carried into RIN.	n/a

8.2 CAPEX

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
Overall commentary – JEN's sources of cost collection and financial recording methodology & processes for the underlying data reported in the AER defined templates		All data reported are actual.	n/a	n/a	Capex is categorised in accordance with the JEN Substitute Distribution Determination 2016-20. These categories align with the Expenditure Summary categories in JEN's Reset RIN Response. JEN uses its ERP system (**SAP**) to capture costs associated with capital expenditure. PM orders in SAP collect costs based on the activity on which an employee works and the activity to which external costs are associated. These aggregate into Work Breakdown Structures (higher level cost collector) which in turn	JEN has enhanced its Regulatory Reporting capability by developing a suite of reports that were designed to provide data that facilitates the population of the annual RIN templates. Project Cost information is extracted from SAP's business warehouse (**BW**) using a data extraction tool, Business Objects (**BO**) and exported into Excel. BO reports were developed based on a requirement to provide data that will populate the tables within these templates. The reports use underlying data models and queries to report the data. JEN executes the BO Reports that are associated with the templates, based on the report selection criteria. The report output provides	No significant assumptions have been made by JEN for each Table number provided below.

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					aggregates the costs at a project level. Master data that is part of the WBS is used to categorise the data into the appropriate Regulatory categories as required by the tables within the templates. JEN uses time writing and SAP assessment cycle functionality in SAP to capture internal labour costs. Where practical and appropriate, all employees time write or are assessed using SAP assessment cycles to an activity/PM order or to a client e.g. JEN. These form the direct costs incurred for a respective activity. External costs are goods receipted against purchase orders issued to external vendors. Purchase orders contain	the data required by the table in this template.	

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					the PM order and WBS Element information. JEN capitalises corporate and network overheads based on a percentage of direct costs.		
8.2.1	Capex By Purpose - Standard Control Services (Actual)	Actual	n/a	n/a	Refer to JEN's source of information, cost collection and financial recording processes for the templates as described above.	Refer to JEN's methodology for the tables within the templates as described above.	n/a
8.2.1	Capex By Purpose - Standard Control Services (CPI Adjusted forecast)	Actual	n/a	n/a	AER Substitute Decision 2016-20 Post-tax Revenue Model (**PTRM**) released May 2016.	Allowances were extracted from AER Substitute Decision 2016-20 PTRM and escalated from real 2015 dollars to nominal dollars. Actual CPI inputs are sourced from the Australian Bureau of statistics (**ABS**) (6401.0 - Consumer Price Index, Australia) with reference to the all groups CPI inflation series A2325846C, which is the weighted average for the eight capital cities.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						The AER's substitute determination for JEN's 2016-20 regulatory period specified that Consumer Price Index (**CPI**) should be calculated based on a June quarter end, which assumes mid-year timing for calendar year analysis. As regulatory allowances within the AER's PTRM are set as 'end of period', real 2015 dollar allowances are first deflated from December 2015 to June 2015 by a half year adjustment. For escalating a real 2015 allowance to nominal dollars, the half year adjustment factor = $1/(1 + 2.31\%)^{(0.5)} = 0.989$ Consistent with the lagged CPI approach applied by the AER within JEN's price control mechanism formulas, the June 2020 CPI value is based on the movement between June 2019 and June 2014 = (Jun19/Jun14)-1 = (114.8/105.9)-1 = 0.08404	

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						The real 2015 allowance is therefore escalated to nominal dollars by multiplying the allowance by a factor of 0.989*(1 + 0.08404) = 1.0730	
8.2.1	Related Party Margin	Actual	n/a	n/a	JEN obtained Related Party margin information from its Related Entity's SAP transactions.	The related party margins of Capex by Purpose – Standard Control Services activities of reported category is derived from SAP ERP system.	n/a
8.2.2	Capex By Purpose - Material Difference Explanation	Actual	n/a	n/a	n/a	Where applicable JEN's experienced engineers analyse the actual data against the allowances. From this analysis, variance commentary is drawn and reported.	n/a
8.2.3	Capex Other	CPI Adjusted Forecast (Actual)	n/a	n/a	AER Substitute Decision 2016-20 Public Lighting Model.	As per method described in TABLE 8.2.1 above.	n/a
		Actual	n/a	n/a	Refer to JEN's source of information, cost collection and financial recording processes for the	Public Lighting and Metering Capex have been included because they have a RAB and a	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					templates as described above.	Substitute Decision 2016-20 PTRM. Refer to JEN's methodology for the tables within the templates as descr bed above.	
8.2.3	Related Party Margin	Actual	n/a	n/a	JEN obtained Related Party margin information from its Related Entity's SAP transactions.	The related party margins of Capex Other activities of reported category is derived from SAP ERP system.	n/a
8.2.4	Capex By Asset Class	CPI Adjusted Forecast(Ac tual)	n/a	n/a	AER Substitute Decision 2016-20 Roll Forward Model and Post-tax Revenue Model (PTRM).	Extracted the customer contributions allowance from the AER Substitute Decision 2016-20 Post-tax Revenue model and converted to nominal amounts using the escalation methodology outlined for the TABLE 8.2.1 allowances above.	n/a
		Actual	n/a	n/a	Refer to JEN's source of information, cost collection and financial recording processes for the templates as described above.	Refer to JEN's methodology for the tables within the templates as descr bed above.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.2.5	Customer Contributions By Asset Class	CPI Adjusted Forecast(Actual) Actual	n/a n/a	n/a n/a	JEN customer contr butions model submitted for 2016-20 distribution determination. Refer to JEN's source of information, cost collection and financial recording processes for the templates as described above.	Extracted the customer contributions allowance from the AER Substitute Decision 2016-20 Post-tax Revenue model and converted to nominal amounts using the escalation methodology outlined for the TABLE 8.2.1 allowances above. Refer to JEN's methodology for the tables within the templates as descr bed above.	n/a n/a
8.2.6	Disposals By Asset Class	CPI Adjusted Forecast(Actual)	n/a	n/a	AER Substitute Decision 2016-20 Post-tax Revenue model	Extracted Asset Disposals Allowance per the AER Substitute Decision 2016-20 Post-tax Revenue model and converted to nominal amounts using the escalation methodology outlined for the TABLE 8.2.1 allowances above.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
		Actual	n/a	n/a	Cash proceeds data is sourced directly from SAP	Cash proceeds from disposals are extracted from the Dec-20 Fixed Assets Movements report which is developed based on SAP transaction data.	n/a

8.4 OPEX

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
8.4	Opex	Actual	n/a	n/a	Opex is categorised in accordance with the JEN Substitute Distribution Determination 2016-20. These categories align with the Expenditure Summary categories in JEN's Reset RIN Response. JEN uses its ERP system (**SAP**) to capture costs associated with opex expenditure. PM orders in SAP collect costs based on the activity on which an employee works and the activity to which external costs are associated. These aggregate into Work Breakdown Structures (higher level cost collector) which in turn aggregates the costs at a project level. Master data that is part of the WBS is used to categorise the data into the appropriate Regulatory categories as required by the tables within the templates. JEN uses time writing and assessment cycle functionality in SAP to capture	JEN has enhanced its Regulatory Reporting capability by developing a suite of reports that were designed to provide data that facilitates the population of the annual RIN templates. Project Cost information and general ledger data are extracted from SAP's business warehouse (**BW**) using a data extraction tool, Business Objects (**BO**) and exported into Excel. BO reports were developed based on a requirement to provide data that will populate the tables within these templates. The reports use underlying data models and queries to report the data. JEN executes the BO Reports that are associated with the templates, based on the report selection criteria. The report output provides the data required by the table in this template.	Where relevant, assumptions have been made by JEN for each Table number provided below.

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
					internal labour costs. Where practical and appropriate, all employees time write or assessed using SAP assessment cycles to an activity/PM order or to a client e.g. JEN. These form the direct costs incurred for a respective activity. External costs are good receipted against purchase orders issued to external vendors. Purchase orders contain the PM order and WBS Element information.		
TABLE 8.4.1	Operating & Maintenance Expenditure (Audited Statutory Accounts)	Actual	n/a	n/a	Refer to overall comments for table 8.4 above. The data agrees to JEN's audited financial statements for the current reporting year and the underlying TB.	Refer to JEN's methodology for the tables within the templates as descr bed above.	n/a
TABLE 8.4.1	Operating & Maintenance Expenditure	Actual	n/a	n/a	Refer to overall comments for table 8.4 above.	The direct costs of operating & maintenance activities of each service category is derived from SAP ERP system. JEN allocates overheads to these activities based on its internal policies and in accordance with the AER approved Cost Allocation Method.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						The overheads included in this template consist of an allocation of residual Asset Management, Service Delivery, Property and corporate overheads. These residual costs are allocated on the basis of direct costs. JEN believes that allocating overheads on the basis of direct cost to each WBS element is the best approach to provide data. In addition, refer to JEN's methodology for the tables within the templates as described above.	
		Allowances	n/a	n/a	AER Substitute Decision 2016-20 PTRM and the regulatory reporting statement submitted by JEN alongside its 2016-20 regulatory proposal (30 April 2015) (**regulatory proposal**), table 3.2.1.1.	Allowances were extracted from AER Substitute Decision 2016-20 PTRM and converted to nominal amounts that align to the categories identified in JEN's regulatory proposal at table 3.2.1.1 current opex categories and cost allocations. JEN made some adjustments to these allocations to these categories to make this information more meaningful, based on cost analysis of its 2014 base year. The adjustments which JEN has made are set out in Appendix A.	n/a

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						Actual CPI inputs are sourced from the ABS (6401.0 - Consumer Price Index, Australia) with reference to the all groups CPI inflation series A2325846C, which is the weighted average for the eight capital cities.	
						The AER's substitute determination for JEN's 2016-20 regulatory period specified that CPI should be calculated based on a June quarter end, which assumes mid-year timing for calendar year analysis. As regulatory allowances within the AER's Post Tax Revenue Model are set as 'end of period', real 2015 dollar allowances are first deflated from December 2015 to June 2015 by a half year adjustment. For escalating a real 2015 allowance to nominal dollars, the half year adjustment factor = $1/(1 + 2.31\%)^{(0.5)} = 0.989$	
						Consistent with the lagged CPI approach applied by the AER within JEN's price control mechanism formulas, the June 2020 CPI value is based on the movement between June 2019 and June 2014 =	

Base information		Data Type			Population approach		
Table number	Table Name	Actual or Estimate	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
						(Jun19/Jun14)-1 = (114.8/105.9)-1 = 0.08404. The real 2015 allowance is therefore escalated to nominal dollars by multiplying the allowance by a factor of 0.989*(1 + 0.08404) = 1.0730.	
TABLE 8.4.2	Operating and Maintenance Expenditure - By Purpose - Margins Only	Actual	n/a	n/a	JEN obtained Related Party margin information from its Related Entity's SAP transactions	The related party margins of operating & maintenance activities of each service category is derived from SAP ERP system.	n/a
TABLE 8.4.3	Explanation Of Material Difference	n/a	n/a	n/a	n/a	Where applicable JEN's experienced engineers analyse the actual data against the allowances. From this analysis, variance commentary is drawn and reported for items where the variance is > ±10%.	n/a

9.5 TUOS

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 9.5.1	TUOS Charges (AEMO)	Actual	n/a	n/a	General Ledger (**GL**) Account and AEMO invoices.	Amount is taken from the relevant General Ledger account at year end. This amount is then reconciled to the AEMO invoice data that is captured in an excel file on a monthly basis.	n/a
TABLE 9.5.2	Transmission Connection Fees	Actual	n/a	n/a	GL Account and AusNet Services invoices.	Amount is taken from the relevant General Ledger account at year end. This amount is then reconciled to the AusNet Services invoice data is captured in an excel file on a monthly basis.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 9.5.3	Cross Boundary Network Charges	Actual	n/a	n/a	Citipower and Powercor: The data is obtained from IMS_WholesaleMeterReporting database for each month. The data is then captured in an excel file on a monthly basis. The data is then reported out of JEN's relevant GL account at the year end. AusNet Services: The data is received from AusNet and checked for accuracy. The data is then captured in an excel file on a monthly basis. The amount is reported out of JEN's relevant GL account at year end.	Citipower and Powercor: Cross Boundary charges are calculated using the AER approved rates (exclusive of Jurisdictional Scheme tariffs) and sent to Citipower and Powercor for checking. Once confirmed, JEN sends out the invoices. Total charged for the year is reported out of the relevant General Ledger account. AusNet Services: AusNet Services calculates the charges and sends to JEN for approval. Total incurred for the year is reported out of the relevant General Ledger account.	n/a
TABLE 9.5.4.1	Payments to Embedded Generators – Avoided Transmission Costs	Actual	n/a	n/a	As per schedule 7.8 Avoided TUOS Payments	As per schedule 7.8 Avoided TUOS Payments.	n/a

Base information		Data Type			Population approach		
Table number	Table name	Actual or Estimated	Basis for, approach used and assumptions made for estimates, and reasons why best estimate	If estimate, actions to report actual data in future	Source	Methodology	Assumptions
TABLE 9.5.4.2	Payments to Embedded Generators – Avoided TUoS Usage Charges	Actual	n/a	n/a	n/a	n/a	n/a

APPENDIX A – ADJUSTMENTS TO OPEX ALLOWANCE

The following changes have been made to refine the reclassification of the total allowance into more meaningful categories as disclosed in table 8.4.1 of template 8.4: -

1. Inspection: The inspection allowance was included in Routine Maintenance of the JEN's regulatory reporting statement accompanying its 2016-20 regulatory proposal (30 April 2015) (**regulatory proposal**), table 3.2.1.1. JEN has shown this as a separate item in in table 8.4.1 of template 8.4.

2. Metering: The SCS metering allowance is reclassified to Customer service, Network operating and Other SCS Maintenance.

3. Property: The Property allowance was included in Maintenance activities in JEN's regulatory proposal, JEN has reclassified this amount into Network Operating and Other SCS Operating.

4. Network Operating: Network related allowances relating to activities such as Standard & Policy development, Strategy planning, Asset Performance & Assessments and Maintaining asset records reclassified from Routine and Emergency response in JEN's regulatory proposal.

5. SCADA: The SCADA/Network Control allowance was included in Network Operating of JEN's regulatory proposal. JEN has shown this as a separate item in the table 8.4.1 of template 8.4.