



VICTORIAN SERVICE & INSTALLATION RULES
MANAGEMENT COMMITTEE

2005 Service and Installation Rules

Changes Summary

Summary of changes

2005 Service and Installation Rules
from the
1999 Service and Installation Rules

June 2005

Whole Document	Reformatted with new sections, footers and headers and text styles. Appendices, details of installation design covered by the Wiring Rules, and non-essential information removed.
Cover	New design, title, definition, TXU and United Energy Distribution logos.
Foreword	Revised and significantly different. Includes application time, a purpose, requirement to be applied and situations not covered by Rules.

Contents

	Page	
Section 1	General	3
Section 2	Introduction	4 - 5
Section 3	Distribution Areas and Contact Details	6
Section 4	General Rules	7
Section 5	Supply Application, Connection and Disconnection	8 - 9
Section 6	Supply Characteristics and Supply Use	10 - 14
Section 7	Low Voltage Supply	15 - 28
Section 8	LV Metering	29 - 38
Section 9	High Voltage Electrical Installations	39 - 43

Section 1. General

1.1	Document Contents Summary	Previously in section C. New format and less comprehensive – Covers sections, main clauses and main groups of figures only. Does not cover subclauses and tables etc.
1.2	References	Previously in Section C. More comprehensive and includes website addresses of references administrators.
1.3	Definitions	<p>Deleted – Aerial Consumer Mains, Distribution Code 1999, Dual Occupancy, Electricity Supplier, Franchise Customer, Non-Franchise Customer, Retail Tariff Metering Code, Supply and Sale Code 1997.</p> <p>New – Customers Agent/s, Electricity Distribution Code, Meter Provider, Must, Point of Attachment, Public Land, Supply Connection Facility, Un-metered Supply.</p> <p>Revised – All other definitions reviewed and updated as appropriate.</p>

Section 2. Introduction		Incorporates some revised clauses from previous Section 1 and some new clauses
2.1.	Disclaimer	Revised but essentially the same.
2.2.	Copyright	Significant revision allowing copying without permission for education or enhancing the Rules application.
2.3.	Innovation	New clause - Enables methods other than those specified by the Rules, provided they are acceptable.
2.4.	Objective	New clause – Detail Rules objectives.
2.5.	Users	New clause – Details main document users.
2.6.	Publication & Revision	New clause.
2.6.1	Administration	New clause – Describes SIR Management Committee structure.
2.6.2	Publication	New clause – Details previous editions and amendments and availability.
2.6.3	Revision	New clause – Details revision process.
Figure2.1	Revision Process	New flow chart – Shows revision process steps.
2.7.	SIR Management Committee Contact	New clause and new website detail.
2.8.	Dispute Resolution	New clause – Describes dispute resolution process.
2.9.	Scope	Revised and expanded. Includes emphasis on where Rules apply – AGL, CitiPower, Powercor, TXU and United Energy. Now covers embedded networks.

2.10.	Application & Application Responsibilities	New clause – applies to Distributors, Meter Providers and Customers.
2.11.	Failure to Comply with These Rules	Expanded clause – essentially as before.
2.12.	Exceptional Circumstances	Reformatted and updated.
2.13.	Offences	Expanded clause.
2.14.	Necessity for Employing a Licensed Person	Essentially the same with amendment to OCEI contact and address.
2.15.	Basic Industry Relationship	New clause and figure.
2.15.1	Scope	Identifies stakeholders associated with connections.
Figure 2.2	Stakeholders	Flow chart to demonstrate stakeholder relationships.
2.15.2	Electricity Metering Code Definitions	Selection of relevant definitions associated with connections.
2.15.3	Responsibilities	Intended to show key responsibilities of main stakeholders.
2.15.3.1	Distributors	Intended to show key responsibilities.
2.15.3.2	Retailers	Intended to show key responsibilities.
2.15.3.3	Customer Agents	Intended to identify typical agents.

Section 3. Distributor Areas and Contact Details Previously incorporated in Areas of Supply

Victorian Distribution Companies	Added “Victorian” to title.
AGL Electricity	Updated detail. Reference to Agility as network operator and road directories for boundary detail.
CitiPower	Updated detail. Reference road directories for boundary detail.
Powercor Australia	Updated detail. Reference to road directories for boundary detail.
TXU	Updated detail. Removal of logo. Reference to road directories for boundary detail.
United Energy Distribution	Updated detail. Reference to Agility as network operator and road directories for boundary detail.

Section 4. General Rules		New section title – Section applies to Low and HV Connections
4.1.	Safety	Previous section 2 clause - significantly revised.
4.2.	Compliance with Regulations, Codes of Practice and these Rules	Previous section 2 clause - significantly revised.
4.3.	Testing	Previous section 2 clause - significantly revised – enables Distributor's to inspect Rules compliance.
4.4.	Equipment Acceptance	New clause.
4.4.1	Equipment Required to be Accepted	New clause – Service Raiser Brackets & Direct Metering enclosures stocked by wholesalers to be accepted prior to connection.
4.4.2	Equipment Not Required to be Accepted	New clause – Recommends use of equipment other than that required to be accepted to be liaised prior to use if any doubt exists.
4.5.	Labelling	Previous section 1 clause – revised and specifies size recommends type.
4.6.	Access to Distributors' Equipment	Previous section 1 clause – significantly revised.
4.7.	Victorian Power Industry Lock	Previous section 1 clause – revised text.
Figure 4.1	Examples of Victorian Power Industry Locks	Previous section 1 figure.

Section 5. Supply Application, Connection & Disconnection	Covers some clauses from previous Introductory Information and Section 2. New commonly used documents table, clauses and copies of forms.
5.1. Conditions of Supply	New clause detailing contractual arrangements – some from previous clause 5.2.1.4.
5.2. Negotiations for Obtaining/Altering an Electricity Supply and Warning Against Premature Expenditure	Revised previous “Introductory Information” clause.
5.3. Typical Connection Process	New clause - details process and stakeholders.
5.4. Application For Supply	Supersedes Clause D Introductory Information. New clause.
5.4.1 Applications	Details where and when applications are made.
5.4.1.1 High Voltage Installations	Details applications to be made.
5.4.1.2 Low Voltage Installations	New clause.
a) New Installations	Details applications to be made.
b) Existing Installations	Details applications to be made.
5.4.1.3 Installations on Public Land	Details applications to be made.
5.4.2 Subdivisions	Details applications to be made.
5.4.3 Distributor Substation on Customers Premises	Supersede previous clause 4.7. Details conditions.

5.5.	Notification of Electrical Work	Extensive revision and expansion of previous clause 2.2.
5.5.1	New Connections & Work Not Requiring an Appointment	New clause – specific requirements.
Table 5.1	Documents for Most Frequently Requested Work	New table detailing most frequently used documents, their availability and submission process, and type of work they are submitted for.
5.5.2	Work Requiring an Appointment	New clause – specific requirements.
5.5.3	Other Documentation	New clause – provides examples of other types of documentation and their purpose.
5.6.	Charges	Extensive revision and expansion of previous clause 3.1 and 3.2.
Form	Electrical Work Request (EWR)	Now included in SIR. Can be photocopied for convenience.
Form	Field Works Order	Now included in SIR. Can be photocopied for convenience.
Form	Application for Abolishment of Electrical Supply	Now included in SIR. Can be photocopied for convenience.

Section 6	Supply Characteristics and Supply Use	Includes new prospective short circuit current values, supply arrangement diagrams and Electricity Distribution Code requirements.
6.1.	Supply	
6.1.1	Supply Systems	Replaces previous clause 4.1. Revised format, includes LV and HV voltages and advises potential changes.
Table 6.1	Standard Nominal Voltages and Voltage Variations	Copied from Clause 4.2.2 of the Electricity Distribution Code.
6.1.2	Prospective Short Circuit Current	Revision of previous clause 4.3. Now referred to as “Prospective Short Circuit Current” to align with Wiring Rules. kA and time duration values now given for supply from $\leq 500\text{kVA}$ transformer. Refer to relevant Distributor in other cases. Will reduce consumer mains sizes due to time duration provided is less than 1 second previously used.
6.2.	Point of Supplies	Supersedes previous clauses 1.6 and 4.4
6.2.1	Property	Similar to previous clause 1.2 definition. Now states that expressed easement through adjacent property not regarded as part of a property for the purpose of establishment of a POS.
6.2.2	Point of Supply	Supersedes previous clause 1.6.
6.2.2.1	Definition	New definition - does not state but refers to Electricity Safety Act definitions.
6.2.2.2	Provision	Revision of previous clause 4.4.1 – Normally one POS and Distributor may agree to more. Removes previous defined criteria for providing more than one.
6.2.2.3	Location	Details Distributor’s right to nominate and provides references for POS according to various types of supplies.

Table 6.2	Point of Supply/Customer Location	Terminals	
			Details POS/CT according to supply type.
6.3.	Consumer Terminals		Details Distributor's right to nominate supply type and CT location.
6.3.1	Definition		Revision of previous clause 1.2 definition.
6.3.2	Number of Consumer Terminals per Point of Supply		Revision of previous clause 4.5. Normally one POS and Distributor may agree to more. Removes previous defined criteria for providing more than one.
6.3.3	Identification of Consumer Terminals		New requirement for identification where more than one set of CT terminals are permitted.
6.4.	Supply Arrangement Diagrams		New requirement to provide supply arrangement diagrams where multiple POS/CT are permitted and there is a risk of incorrect identification of supply arrangements and segregation.
6.5.	Supply Loading		Supersedes previous Section 2 clauses,
6.5.1	Obligations		Revision of part of previous clause 5.2.1.1.
6.5.2	Non Compliance		Incorporates parts of previous clauses 1.4 and 2.2. Details consequence of non-compliance.
6.5.3	Power factor		States Electricity Distribution Code requirements. Supersedes previous clause 2.5.
6.5.4	Harmonics		States Electricity Distribution Code requirements. Supersedes previous clause 2.6 reference.
6.5.5	Load Balance		States Electricity Distribution Code requirements. Supersedes previous clause 4.8.2.
6.5.6	Disturbing Loads		States Electricity Distribution Code requirements.
6.5.7	Switched Loads		Previous clause 2.6.4 – Now advisory.
6.5.8	Voltage Drop		Previous clause 2.3 – Revised but same meaning.

6.5.9	Equipment Requiring Special Consideration	Previous clauses 2.6 – Revised but same meaning.
6.5.10	Starting Current of Motors	Previous clause 2.7.
6.5.10.1	General	Previous clause 2.7.1.
6.5.10.2	Three Phase Motors 415 Volts	Previous clause 2.7.1.1 – Revised but same meaning.
Table 6.3	Three Phase Motors 415 Volts	Previous table 2.1.
6.5.10.3	Single Phase Motors	Previous clause 2.7.1.2.
Table 6.4	Single Phase Motors	Previous table 2.2.
6.5.11	Test Method for Measurement of Motor Starting Current	Previous clause 2.7.2.
6.5.11.1	Fall In Voltage Method	Previous clause 2.7.2 (a)
6.5.11.2	Current Measurement Method	Previous clause 2.7.2 (b)
6.5.12	Back Feed	New clause – If potential for back feed, customer to advise distributor of proposed preventative measures.
6.6	Type of Supply and Load*	Supersedes previous clause 4.8.1.1, 4.8.1.2 and parts of 5.2.1.4. Refers to contract to determine supply type and capacity. Requirement to comply.
6.7	Supply Capacity	Supersedes previous clause 5.2.1.
6.7.1	Application	Supersedes previous clause 6.1.4.2.
6.7.1.1	Electrical Installations subject to a demand tariff agreement or contract	Supersedes previous table a) Same meaning in clause format.

6.7.1.2	Electrical Installations subject to a specific electricity distribution connection agreement or contract, or a deemed electricity distribution contract.	Supersedes previous table b) Same meaning in clause format.
	a) New Electrical Installations	Supersedes previous table b) Same meaning in clause format.
	b) Existing Electrical Installations	Supersedes previous table b) Same meaning in clause format.
6.7.2	Supply Capacity Control	Supersedes previous clause 5.2.1.5.
6.7.2.1	General	Supersedes parts of previous clause 5.2.1.5 – Essential service load need not be subject to control provided supply capacity less essential services load is controlled.
6.7.2.2	Supply Capacity Control Device/s	Supersedes parts of previous clause 5.2.1.5 and split into two subclauses.
	a) Circuit Breakers	New subclause detailing circuit breaker requirements.
Table 6.5	Circuit Breakers to Satisfy Clauses 6.7.1.1 and 6.7.1.2	Supersedes and more comprehensive than previous table “Guide to the selection of Supply Capacity Control Devices” Covers available circuit breakers to satisfy each clause.
	b) Load Management Systems	Supersedes parts of previous clause 5.2.1.5. Consolidates advice in one specific subclause.
6.8	Sources of Alternate Supply	Supersedes previous clause 4.6.
6.8.1	General	Supersedes previous clause 4.6.1 Similar advice to contact Distributor at earliest opportunity.
6.8.2	Connection of Make before Make Alternative Supply Sources	Supersedes parts of previous clause 4.6.2. More comprehensive than before.
6.8.3	Connection of Parallel Generation (Grid Connected Alternative Supply Sources)	Supersedes previous clause 4.6.3. More comprehensive than before.

6.8.4	Grid Connection of Energy Systems via Inverters	New clause.
6.8.4.1	Inverter Requirements	New clause.
6.8.4.2	Installation and Connection to Grid	New clause.
6.8.4.3	Metering	New clause.
Figure 6.1	Typical Alternative Supply Arrangement	Supersedes previous figure 4.2. Removed reference to Australian Standards.
Figure 6.2	Typical Installation of an Inverter Energy System Incorporating an Uninterruptible Power Supply	New figure.
Figure 6.3	Typical Labelling Requirements	New figures.

Section 7	Low Voltage Supply	Includes revised previous Section 5 clauses.
7.1	Services	Supersedes previous clause 5.1.
7.1.1	General	Previous clause 5.1.1. Similar meaning but condensed.
7.1.2	Type of service	Revised previous clause 5.1.2. Emphasis that regulations determine service type.
Table 7.1	Type of Service - Bushfire Risk Areas	New table supersedes previous clauses 5.1.2.1 and 5.1.2.2. More comprehensive & specific.
7.1.3	Connections to Services	Revised previous clause 5.1.3. More comprehensive and specific rules.
7.2	Underground Supplies	Supersedes parts of previous clause 5.4.
7.2.1	Consumer's terminals	Revised previous clause 5.4.1.3. Revised wording.
Table 7.2	Typical Consumer Terminal Locations	New table incorporating part of previous clause 5.4.1.3.
7.2.2	Underground Services	Supersedes parts of previous clause 5.4.2.
7.2.2.1	General	Details where an underground service shall be provided.
7.2.2.2	Provision of Consumer's terminals	New clause – Customer to provide CT except for pit connections.
7.2.2.3	Service Pits	Supersedes parts of previous clause 5.4.1.3. Covers normal locations and supply capacity.
7.2.2.4	Underground Service Cable Termination*	Supersedes parts of previous clause 5.4.3.8. Requirement for standard M12 bolt for each service conductor. Removed specific 5m inside property. New term “supply connection facility” as in definitions.

Table 7.3	UG Service Cables – Supply Connection Facility Requirements	Supersedes previous figure 5.2 table and requirement for previous clauses including 5.4.3.7 “Pillars and Cubicles” and specific requirements for switchboards and CT enclosures etc. Specific requirements for all types of Distributor UG service cables.
Figure 7.1	UG Service Cables – Supply Connection Facility Requirements	Supersedes previous figures 5.2 and 5.3. To be used in conjunction with Table 7.3 to determine conduit sizes and consumer terminal spacing in relation to service cable size.
7.3	Overhead Supplies	Supersedes previous clause 5.5.
7.3.1	Scope	New clause. Basically means the Rules apply to all customer initiated work – including fault work initiated by customer’s installation failure, actions or property.
7.3.2	General	Supersedes previous clause 5.5.1.1. Now specifies specifically where an OH service cable may be provided. Removes ambiguity and limits maximum of 20m service cable over the customer’s property.
7.3.3	Consumer’s terminals	New clause – Specifies location, conditions and maintenance obligations.
Table 7.4	Typical Consumer’s Terminals Locations	New table – Details suitable locations.
7.3.4	Point Of Attachment (POA)	Supersedes parts of previous clause 5.5.1.2.
7.3.4.1	Definition	Repeats new definition from “Definitions”.
7.3.4.2	POA Access	Supersedes part of previous clause 5.5.1.2. New requirement to be accessible in accordance with Regulations. Includes new option for access from a EWP and specific requirement to be accessible from a portable extension ladder.
Figure 7.2	POA Minimum Portable Extension Ladder Access Facilities	New figure detailing ladder setup and ground footing conditions.
7.3.4.3	POA Location	Supersedes parts of previous clause 5.5.1.2. More comprehensive than before.
7.3.4.4	POA Suitability	New clause – Provides conditions for structure to which the service bracket is attached.

7.3.4.5	POA on Buildings		New clause incorporating notes from previous figure 5.15. Reduction of minimum height from 3.1m to 3.0m.
Figure 7.3	POA on Buildings & POA on Private Poles		Revised previous figure 5.15 with removal of notes. New Private Pole figure.
7.3.4.6	POA on Private Poles		New clause - Emphasis on Regulatory requirements for private poles.
7.3.5	Service Brackets		Incorporates parts of superseded clauses 5.5.1.3 and 5.5.1.6
7.3.5.1	General		Requirement for service brackets to comply to specifications and Rules
7.3.5.2	Provision		Supersedes part of previous clause 5.5.1.3. Requirement for customer to provide suitable bracket.
7.3.5.3	Specification, Acceptance and Installation		Supersedes previous clause 5.5.1.6
a)	Definition		New separate definitions for “Standard Service Bracket” and “Service Raiser Bracket”
b)	Hook		New hook specification
c)	Strength Rating		Supersedes and includes parts of previous clauses b),d) and e). Clause c) deleted. Refer to Distributor for services greater than 35mm ² and revised maximum deflection of 3 ⁰ .
d)	Marking		Extension of previous clause f) to require manufacturers identification and catalogue number.
e)	Corrosion Resistance		Same as previous clause g).
f)	Prevention of Conductor Insulation Resistance		Previous clause h) “whether on external or internal surfaces” added to first sentence.
g)	Provision for Earthing		Previous clause i) Deleted previous 2 nd paragraph bonding cable specification.
h)	Equipment Access		Previous clause j) Amended to align with clause 7.3.4.2 (POA Access)

- | | | |
|-----|---|--|
| i) | Installation | Incorporates previous clause k) "Installation Instructions" New requirement for instructions to contain acceptance number, and for brackets to be installed in accordance with their instructions. |
| j) | Acceptance of Service Brackets | Revised clause. |
| i) | Bracket not Required to be Accepted | Similar to previous clause j) (ii) |
| ii) | Service Raiser Brackets Required to be Accepted | Removal of requirements for NATA certification and new specific requirements for acceptance process. |

Table 7.5	Service Raiser Bracket Acceptance Documentation	New table. Details documents and certification requirement for acceptance of service raiser brackets.
Figure 7.4	Standard Service Bracket Fixing	Previous figure 5.16. Amended terminology.
7.3.6	Aerial Service Cables Clearances	Supersedes previous clause 5.5.1.4 and separated into two sub clauses.
7.3.6.1	Existing Service Cables	New clause - Details customer obligations in respect to existing service cables.
7.3.6.2	New and Replacement Service Cables	New clause - Details customer obligations in respect to existing service cables.
7.3.6.3	Achievement and Maintenance of Clearances	Part of previous clause 5.5.1.5.
Figure 7.5	Common Minimum Service Cable Clearances	Supersedes part of previous figure 5.14. (a) Retitled and new vegetation clearance illustration. New "Elsewhere" description. Reduced dimension for property boundary.
7.3.7	Service Cable Sag	Supersedes part of previous figure 5.14. (a) Provides calculation example.
Figure 7.6	Service Cable Sag	Part of previous figure 5.14. (a)
7.3.8	Service Cable Routes	Notes from previous figure 5.14 (b)
Figure 7.7	Service Cable Routes	Illustration section of previous figure 5.14 (b) Notes removed.

7.4	Service Protection	Supersedes previous clause 5.2.
7.4.1	Obligations	New advice to customer to install protective equipment to protect their equipment. Incorporates part of previous clause 5.2.1.1.
7.4.2	Application of Service Protection Devices	Supersedes previous clause 5.2.3.
7.4.2.1	General	Supersedes previous clause 5.2.3.1. Includes reference to one device used as a service protection device and supply capacity control device.
7.4.2.2	Access	Supersedes previous clause 5.2.3.2. Reference made to associated clauses.
7.4.2.3	Selection of Device	Same meaning as previous clause 5.2.2.3.
7.4.2.4	Common Enclosures	Same as previous clause 5.2.3.4.
7.4.3	Security	Same meaning as previous clause 5.2.3.5.
7.4.3.1	General	Same meaning as previous clause 5.2.3.5.1.
7.4.3.2	Distributor's operation	Same meaning as previous clause 5.2.3.5.2.
7.4.3.3	Construction Sites	Same meaning as previous clause 5.2.3.5.3.
7.4.4	Operation	Supersedes previous clause 5.2.3.6.
7.4.4.1	General	Supersedes previous clause 5.2.3.6.1 Exemption for persons authorised by customers to operate circuit breaker service protection devices incorporated into the clause.
7.4.4.2	Emergency Services Personnel	Same as previous clause 5.2.3.6.2.
7.4.4.3	Licensed Electrical Workers	Same as previous clause 5.2.3.6.3.
7.4.5	Service Protection Devices	Supersedes previous clause 5.2.2.

7.4.5.1	Circuit Breakers and Fuses - General Requirements	Supersedes previous clause 5.2.2.1.1. Now incorporates minimum kA ratings for both fuses and circuit breakers and some other generic requirements previously applicable only to circuit breakers.
7.4.5.2	Circuit Breakers – Particular Requirements	Supersedes previous clause 5.2.2.1.2. Amended to remove generic service protection device requirements and incorporate only specific circuit breaker requirements. Reference to circuit breakers used as a combined service protection and supply capacity device.
7.4.5.3	Devices up to 125A rating	Supersedes previous clause 5.2.2.2 – Rating changed from 100A to 125A to match circuit breaker ratings.
7.4.5.3.1	Circuit Breakers	Revised previous clause 5.2.2.2.1. Includes generic circuit breaker specifications.
	a) Miniature Circuit Breakers	Revised previous clause a)
	b) Pole Mounted Circuit Breakers	Revised previous clause b) More comprehensive specifications.
7.4.5.3.2	Fuses	Supersedes previous clause 5.2.2.2.2.
	a) General	Revised previous clause a) Includes previous exemption into clause.
	b) Fused Overhead Line Connector Boxes	Same as previous clause b)
	c) Panel Mounted Fuses	Revised previous clause c) Same meaning.
	d) Stick Operated, Panel Mounted Fuses	Revised previous clause d) Same meaning.
	e) Miniature Combined Fuse Switches	Same as previous clause e)
7.4.5.4	Devices above 125A rating	Supersedes previous clause 5.2.2.3. Rating changed from 100A to 125A to match circuit breaker ratings.
7.4.5.4.1	Circuit Breakers	Revised previous clause 5.2.2.3.1.

7.4.5.4.2	Fuses	Supersedes previous clause 5.2.2.3.2.
	a) General	Revised previous clause a) Exemption deleted.
	b) Fused Switch Disconnecter (FSD)	Revised previous clause b) Deleted specific size fuse links.
	c) Combined Fuse Switches (CFS)	Same as previous clause c)
	d) LV Fused Isolator (Hinged Fuse Switch)	Same as previous clause d)
7.4.6	Acceptable Applications	Supersedes previous clause 5.2.4.
7.4.6.1	Underground Supply	Complete revision of previous clause 5.2.4.1. Situations previously covered by exemptions included into the clause.
Table 7.6	Guide to Selection of Service Protection Devices – Underground Services	Revised previous table 5.1. Condensed, removed supply capacity control column.
7.4.6.2	Overhead Supply	Supersedes previous clause 5.2.4.2 and 5.2.4.3.
7.4.6.2.1	General	Incorporates parts of previous clauses 5.2.4.1.and 5.2.4.3 Covers overhead service cable and façade systems. Situations previously covered by exemptions included into the clause.
7.4.6.2.2	Supply Above Commercial Premises Verandas	Incorporates parts previous clause 5.2.4.1.and 5.2.4.3. Requirement for Distributor to firstly agree to supply over veranda, then sealable SPD adjacent to POA and SDD on meter panel.
7.4.6.2.3	Supply to Private Poles	New clause to require pole circuit breaker previously specified in Appendix B.
Table 7.7	Guide to Selection of Service Protection Devices – Overhead Services	Revised previous table 5.2. Condensed, removed supply capacity control column.
7.4.6.3	Supply from Distributor's Pole	Revised previous clause 5.2.4.4. Situations previously covered by exemptions included into the clause.

Table 7.8	Guide to Selection of Service Protection Devices – Supply Direct from Distributor’s Pole	Revised previous table 5.3. Condensed, removed supply capacity control column.
7.4.6.4	Supply Direct from Enclosed Substation	Revised previous clause 5.2.4.5. Situations previously covered by exemptions included into the clause.
Table 7.9	Guide to Selection of Service Protection Devices – Supply from Enclosed Substation	Revised previous table 5.2. Condensed, removed supply capacity control column.
7.5	Supply Disconnection Devices	Revised previous clause 7.4. Specifies use in multiple occupancies and where OH servicing above commercial premises verandas only.
7.6	Safety when Working on or near Network Assets	Includes situations previously covered by clause 5.4.1.1 and several new situations.
7.6.1	No Go Zone	New clause covering the OCEI/VWC requirements and process to follow.
7.6.2	Underground Cables	New clause referencing No Go Zone and Dial Before You Dig detail.
7.6.3	Substations	Revised previous clause 5.4.1.1 (a). Reference to No Go Zone and expanded to require contact with Distributor where installation of free standing equipment in vicinity of any substation is proposed.
7.6.4	Poles and Overhead Lines	Revised previous clause 5.4.1.1 (b). Reference to No Go Zone and expanded to require contact with Distributor where installation of free standing equipment in vicinity of any substation is proposed.
7.6.5	Service Pits	Same as previous clause 5.4.1.1 (c)
7.6.6	Proximity of Electrical Installation and Distributor Assets	New clause to cover all situations. Refers to applicable regulations.

7.6.7	Supply Isolation	New clause to encourage Distributor involvement for supply isolation.
7.7	Consumer's mains	Supersedes previous clause 5.3.
7.7.1	General	Revision of previous clause 5.3.1. No new requirements.
7.7.2	Size of Consumer's Mains	Revision of previous clause 5.3.2. Deletion for domestic mains to carry 8.4kVA.
7.7.3	Identification of Consumer's Mains	Revision of previous clause 5.3.3. Essentially the same requirements.
7.7.4	Joints in Un-metered Consumer's mains	Revision of previous clause 5.3.5. Essentially the same requirements.
Table 7.10	Joints in Un-metered Consumer's mains	Revised previous clause 5.3.5 table. New provision for insulated crimp joints in additional circumstances.
7.7.5	Terminations	New clause – General statement re compliance.
7.7.6	Underground Consumer's mains	Supersedes previous clause 5.4.3.
7.7.6.1	Backfilling	New clause detailing regulation requirements and refusal to connect if not backfilled.
7.7.6.2	Minimum Insulation Resistance	Revised previous clause 5.4.3.3. Same meaning.
7.7.6.3	Wiring Systems	Extensive revision of previous clauses 5.4.3.3 (c), 5.4.3.4, 5.4.3.4, 5.4.3.5 and 5.4.3.6. Condensed and removed most specifications covered by Wiring Rules and retained mainly specifications affecting Distributors.
7.7.6.4	Wiring Systems in Underground Reticulated Distribution Areas	Regulated part of previous clause 5.4.3.3 (c) retained for information.
Table 7.11	Wiring Systems: Underground Reticulated Distribution Areas	Previous table 5.2 retained as information – Reflects Regulation requirements.

7.7.6.5	Pit Connections	Extensive revision of previous clause 5.4.3.8 (c). Now also specifies maximum protrusion of conduit and minimum and maximum size, type and numbers of conductors.
Figure 7.8	Requirements for Consumer's mains Supplied from a Service Pit	New figure replaces previous figures 5.9, 5.10, 5.10/1, 5.11, 5.12, and 5.13. Requirements listed - not notes.
7.7.6.6	Termination on Distributor Pole	Supersedes previous clauses 5.4.3.5(c) and 5.4.3.6 (c)
7.7.6.6.1	Work Practices	New clause incorporating part of previous clause 5.4.3.6 (c). Lists essential references.
7.7.6.6.2	Installation	New clause combining parts of previous clauses 5.4.3.5(c) and 5.4.3.6 (c). Details installation responsibilities and requirement for using non-traffic side of pole and not to obscure pole ID.
7.7.6.6.3	Concrete Pole Attachments	Revised part of previous clause 5.4.3.6 (c). New requirement for specified additional insulation of consumer terminals from pole which previously "should" have been fitted.
Figure 7.9	Typical Underground Consumer's Mains on a Distributor's Pole	Replaces previous figures 5.1, part of 5.2 – Requirements listed - not notes.
7.8	Specific Electrical Installations & Supply Arrangements	New section incorporating some previous topics and several new situations.
7.8.1	Private Overhead Electric Lines (POEL)	Supersedes previous clause 5.5.2 and Appendix B. Details Regulatory and compliance specifications.
7.8.1.1	Construction	Details regulatory requirements and regulation exemption process.
7.8.1.2	Protection	Details regulatory requirements, and distributor requirements for pole circuit breakers.
7.8.1.3	Inspection	New clause detailing the regulatory requirement for Distributors to inspect and the inspection process.
Figure 7.10	Typical POEL Arrangements	New illustrations detailing specific arrangements and responsibilities.

7.8.2	Limited Period Supplies	Supersedes previous clause 4.9. Term “Limited period supplies” supersedes “Temporary Supplies” . Deleted all reference to installation construction covered by Wiring Rules and not relevant to Distributors.
7.8.2.1	Provision	Revised part of previous clause 4.9.1 Same meaning.
7.8.2.2	Customer’s Electrical Installation	Supersedes previous clause 4.9.2. Refers to Wiring Rules for installation standards and requires compliance with various SIR Rules, eg, servicing and metering.
7.8.2.3	Buildings in Course of Erection	Supersedes previous clause 4.9.2.3. Focus on metering and servicing and advice to limit potential for further Distributor visits.
Figure 7.11	Typical Arrangements, Limited Period Supplies	Replaces obsolete previous figures 4.3, 4.4, and 4.5 which detailed both Wiring Rules and SIR requirements. Figure contains specifications relevant to the SIR from the previous figures and previous figure 4.7.
7.8.3	Multiple Occupancies	Supersedes previous section 7 clauses.
7.8.3.1	Plan	Revision of previous clause 7.1. Requires plan prior to commencement.
7.8.3.2	Subdivision	Extensive revision of previous clause 7.2. Provides subdivision advice and reference to new SIR clause on subdivisions.
7.8.3.3	Metering	Supersedes previous clause 7.6 and refers to Section 8 for detail.
7.8.3.4	Control	Supersedes previous clauses 7.3 and 7.4. and refers to relevant clauses.
	a) Meter Panels and Occupancies	Refers to section 8.11.4 clause requirements.
	b) Supply Disconnection Devices (SDD)	Refers to clause 7.5 clause requirements.
7.8.3.5	Supply Arrangement Diagrams	Refers to clause 6.4 requirements if there is a risk of incorrect identification of supply arrangements.

7.8.3.6	Labelling	Supersedes previous clause 7.5. Essentially the same requirements in a clearer format.
7.8.4	Private Electric Lines on Public Land	Supersedes previous clause 4.10. Essentially a new clause.
7.8.4.1	General	New clause requiring contact to be made with relevant Distributor for advice prior to consolidating any work.
7.8.4.2	Definitions	New clause - Partly defines “Public Land” as to define it totally as detailed in the Electricity Safety Act would lead to significant work by OCEI, customers and distributors that is not intended by the OCEI. Also defines “Supply Authority” for the purpose of the clause.
7.8.4.3	Legislation Summary	New clause - Summarises past and current legislation.
7.8.4.4	Responsibilities	New clause - Details responsibilities for lines installed under past legislation.
7.8.4.5	Current Practices	New clause.
	a) Parties Enabled by the Act	New clause – details parties enabled by the Electricity Safety Act 1998 to install lines.
	b) Order in Council – Electric Lines on Public Land Exemption	New clause – details Order’s effect and process enabling parties other than those previously enabled by the Electricity Safety Act 1998 to install lines.
7.8.4.6	Recording of Private Electric Lines on Public Land	New clause – Details Electricity Safety Act requirement for other than asset recording bodies specified by the OCEI to submit diagram to Distributor prior to energisation.
7.8.5	Equipment Installed on Distributor’s Pole	New clause - Supersedes some clauses from previous section 5 and previous electrical installations specifications from “Engineering Code of Practice for the Shared Use of Poles”
7.8.5.1	Use of Pole	New clause – Details conditions for shared use of poles. Agreement required if more than a “standard” type underground or POEL is to be terminated on pole. Clearly states that it is the customer’s responsibility for installation, maintenance and liability associated with their equipment, including removal and reinstatement if pole changed or relocated.

Figure 7.12	Maximum Equipment on a Distributor's Pole without an Agreement	New figure - Illustration of clause 7.8.5.1 intent.
7.8.5.2	Equipment Installation	New clause – Details electrical installation arrangements.
Figure 7.13	Typical Requirements for Installation Equipment on a Distributor's Pole	New figure – Illustration of clause 7.8.5.2 intent.
7.8.6	Electrical Installations on Public Land	New clause.
7.8.6.1	General	New clause – Details contact and compliance requirements.
7.8.6.2	Points of Supply and Consumer's terminals	New clause – details POS and CT arrangements unless otherwise agreed with Distributor.
7.8.6.3	Equipment Installed Upon a Distributor's Pole	New clause – refers to compliance in accordance with clause 7.8.5.
7.8.6.4	Labelling	New clause – Requires labelling where there is a risk of incorrect identification of assets, eg, Vic Roads and Municipal Council public lighting.
7.8.7	Contiguous Land	New clause – requires rectification where supply to a property is provided and the property ceases to be contiguous.
7.8.8	Subdivisions	Supersedes and extensive revision of previous clause 7.2.
7.8.8.1	General	New clause – Suggests early submission of any proposed subdivision. Details considerations, suggests consultation with an REC/LEI and submission to include proposed lots and loading etc.
7.8.8.2	No Existing Electrical Installation or Supply	New clause - Suggest inclusion of proposed lots and loadings with submission.
7.8.8.3	Existing Electrical Installation or Supply	New clause - Refers to consideration to common property and regulatory requirements.
7.8.8.4	Multiple Occupancies	New clause – Advises consideration of supply, wiring design, common property, metering and regulatory requirements etc.

Figure 7.14	Typical Supply Arrangements	Supersedes previous figure 4.1 - Revised and expanded to include more situations.
Figure 7.15	Typical Underground Service Supply Arrangements	Supersedes previous figure 5.1. Revised and simplified.
Figure 7.16	Typical Overhead Service Supply Arrangements	Supersedes previous figure 5.2. Revised and simplified.
Figure 7.17	Typical Arrangements – Supply From Distributor’s Pole	Supersedes previous figure 5.3. Revised and simplified.
Figure 7.18	Typical Arrangements – Supply From Enclosed Substation	Supersedes previous figure 5.4. Revised and simplified.

Section 8	LV Metering	Supersedes previous Section 6 and Section 7 metering arrangements, and the 1999 Distco Technical Specification for Meter Panels, Enclosures and Surrounds for Customer Installations. Contains reformatted and revised clauses, and many new clauses
8.1	Scope	Supersedes parts of previous clause 6.1.1. New clause defining application, clarification contacts and reference documents.
8.2	Tariffs & Metering	Supersedes parts of previous section 3. New clause defining tariff/metering relationship and advice to contact Retailer to determine tariff/s.
8.3	Metering Obligations	Supersedes parts of previous clause 6.1.1 and 6.1.2.
8.3.1	General	Requires customer to provide and maintain facilities separate metering for each customer, and metering equipment to be supplied, installed and maintained by the meter provider.
8.3.2	Alterations and Additions	More stringent requirements for wooden panels/boards use. New requirement for customer to provide equipment if wooden panels/boards re-used, and for customer to assume ownership and responsibility if upgraded facilities are installed by a meter provider.
8.4.	Metering Panels, Surrounds and Enclosures	Includes revised specifications from superseded 1999 Disco Technical specification and previous Section 6 and 7 clauses.
8.4.1	General	Defines required meter mounting facilities, equipment required to be accepted and general compliance specifications.
8.4.2	Meter Panels	Supersedes parts of previous Section 6 and 7, and the 1999 Distco Technical Specification.
8.4.2.1	Size	Requires sizes to be adequate for accommodation of metering equipment, references for sizes and advice to consider possible future needs.
8.4.2.2	Installation	Details where meter panels shall be installed within/on enclosures/surrounds.

8.4.2.3	Materials	Details meter panel material standards.
8.4.2.4	Wiring Holes	Requires wiring holes to suit metering installation, nominates sizes and for unused holes to be sealed in accordance with the Wiring Rules.
8.4.2.5	Fixing and Sealing	Details fixing/hinging and securing arrangements.
8.4.2.6	Wiring	Details generic meter panel wiring, sealing and unused wiring termination requirements.
8.4.3	Meter Surrounds and Enclosures	Supersedes parts of previous Section 6 and 7, and the 1999 Distco Technical Specification.
8.4.3.1	General	Details generic metering surrounds/enclosure requirements.
8.4.3.2	Meter Surrounds	Details specifications and construction requirements specific to meter surrounds.
8.4.3.3	Meter Enclosures	Details specifications, construction and clearance requirements specific to meter enclosures.
	a) Type Not Exposed to Weather or Adverse Environment	New clause detailing enclosure specifications and use of meter surrounds in these enclosures.
	b) Type Exposed to Weather or Adverse Environment	New clause details enclosure specifications including IP ratings, ventilation and draining, clearances, and door requirements.
8.4.3.4	Acceptance and Marking	New clause requiring enclosures and surrounds required to be accepted to be permanently labelled with acceptance number.
8.5	Equipment	Supersedes parts of previous Section 6 and 7, and the 1999 Distco Technical Specification.
8.5.1	Acceptance	New clause advises that accepted equipment is OK to connect, and that material not required to be accepted is subject to acceptance by the Responsible Officer.
8.5.2	On Meter Panels or Within Enclosures	New clause specifies limitation of equipment on meter panels and use of fixing screws.

8.5.3	Sealing and Locking	New clause specifies access restriction of un-metered terminals by barriers/sealing, sealing requirements and lock off facilities for switches controlling un-metered circuits.
8.6	Meter Panel Labelling	
8.6.1	Single Occupancy	New requirement to label every panel with its correct street address.
8.6.2	Multiple Occupancies	New requirement to label every panel with its correct street address, and relationship of other supply equipment.
8.7.	Protection	Supersedes previous clause 6.4. Includes generic protection specifications.
8.8	Location	Supersedes previous clause 6.2 – Now specific to location.
8.8.1	General	Includes revised specifications intended to clarify location requirements, eg, as close as practical to the public entrance and when/how to be installed in perimeter fences.
8.8.2	Single Occupancy Domestic Electrical Installation	Revised specifications with generic requirements included in clause 8.8.1. Same meaning.
8.8.3	Multiple Occupancy Electrical Installation	Revised clause. Generally same meaning.
8.8.4	Public Land	Revised clause. Generally same meaning.
8.8.5	Unsuitable Metering Locations	Revised clause. Generally same meaning but more detailed
8.9	Access	Supersedes previous clause 6.2 – Now specific to access.
8.9.1	General	Revised clause. Generally same meaning.
8.9.2	Locks	Revised clause. Generally same requirement contained in numerous previous clauses.
8.10	Determination of Meter Type	New clause specifying customer and Distributor to determine metering type if demand exceeds 100Amps.

8.11	Direct Connected Metering	Supersedes previous clause 6.6.
8.11.1	Clearances	New specific clause supersedes part of previous clause 6.6.1. Clearance change 2.0m to 2.1m to top edge for all meter panels and, 0.6m to 0.5m to lower edge of multiple occupancy meter panel. 1.0m remains to lower edge for other than multiple occupancies.
8.11.2	Meter Panels	New maximum size meter panel of 600mm x 900mm plus 10% and minimum size panel on a surround of 200mm x 370mm.
Table 8.1	Meter Panel Conductor Size Limitations	Supersedes Table 6.1. Added 400mm x 590mm panel and previous text note.
Table 8.2	Maximum Number of Occupancy Metering per Panel - $\leq 16\text{mm}^2$ conductors	Supersedes Table 6.2. Added 200mm x 370mm and deleted 590mm x 400mm panels.
Table 8.3	Maximum Number of Occupancy Metering per Panel- $\leq 35\text{mm}^2$ conductors	Supersedes Table 6.3. Deleted 590mm x 400mm panel.
8.11.3	Equipment	New specific clause for direct metering equipment.
8.11.4	Isolation of Metering Equipment	Supersedes previous clause 6.6.2.1
8.11.4.1	Single Occupancy Metering	Revised previous clause 6.6.2.1 (a) Similar meaning.
8.11.4.2	Multiple Occupancy Metering	Revised previous clauses 6.6.2.1 (b) and (c)
	a) Meter Panel Isolation	Same meaning as previous clause.
	b) Individual Occupancy Metering Isolation	Same meaning as previous requirement.
8.11.5	Meter Wiring	Similar specifications to previous clause 6.6.2. New reference to Regulatory requirements.

8.12	LV Current Transformer Metering	Supersedes clause 6.7.
8.12.1	General	Supersedes previous clause 6.7.1. New references that Meter provider will install metering and the relevant Distributor will provide the current transformers and wiring loom.
8.12.2	Meter Panel	Supersedes previous clause 6.7.2 and 6.7.3.
8.12.2.1	Panel	New generic 600mm x 600mm minimum size and clarification that a separate panel for each CT meter installation and Direct metering is not to be installed on same panel as CT metering.
8.12.2.2	Location and Access	References to generic clause location and access clauses, limitations of wiring loom, high intensity magnetic fields and heavy current carrying conductors.
8.12.2.3	Clearances	Clearances from previous clauses 6.7.2 and 6.7.3 combined into specific clause.
Table 8.4	Conductors to Meter Panel Clearances	Same as previous clause 6.7.2 table.
8.12.2.4	Wiring	New clause specifies that Meter Provider is responsible for preparation, provision and installation of meter panel wiring, metering and associated equipment in accordance with the Rules.
8.12.3	Current Transformers	Supersedes parts of previous clause 6.7.4.
8.12.3.1	General	New clause specifies facilities to be provided.
8.12.3.2	Types and Supply	Specifies that relevant Distributor will supply CTs instead of Electricity Supplier previous stated. No change in types.
8.12.4	CT Isolation	Supersedes parts of previous clause 6.7.4.1.
8.12.4.1	Single Occupancy	Same meaning as before.

8.12.4.2	Multiple Occupancy	New requirement for all CT occupancies to be able to be isolated individually unless other occupancies cannot be occupied without CT occupancy services.
8.12.5	CT Enclosures	Supersedes previous clause 6.7.4.3.
8.12.5.1	General	Previous specifications refined and more detailed with new enclosure door specifications.
8.12.5.2	Location	New clause specifying working space requirements and maximum of 3.0m mounting height not previously covered.
8.12.5.3	Access	Supersedes parts of previous clause 6.7.2. More general than previous clause and new requirement that persons accessing CTs are not exposed to other live equipment other than that within enclosure.
8.12.6	CT Mounting	Supersedes previous clause 6.7.4.2. Specifies that Customer is responsible for mounting CTs and that removable busbar is required through CT window in all cases.
8.12.7	CT Meter Voltage and Current Wiring	Supersedes previous clause 6.7.5
8.12.7.1	Fuses	Similar to previous clause with additional location option of RH top front corner.
8.12.7.2	CT Wiring Loom	Similar to previous clause – Relevant Distributor to provide standard loom and new specification for neutral connection.
Figure 8.1	Individual Electrical Installations – Acceptable Meter Locations	Revised previous figure 6.3 Means same as previous figure.
Figure 8.2	Acceptable Meter Locations for Elevated Premises	Revised previous figure 6.1. 2.0m height altered to 3.0m.
Figure 8.3	Meter Enclosures Near Gas Meters	Revised previous figure 6.2. Added LPG clearance illustration. Amended Note 3 to reflect new maximum meter panel height and Note 5 reference to Australian Standards.

Figure 8.4	Meter Enclosure - Metal	Revised previous figure 6.4. Illustration notes amendments include deletion of reference to earthing stud and add “non removable door”. Table - Deleted reference to 590mm x 400mm panel and added 600mm x 600mm to CT metering. Notes – Amended clause references and deleted Note 7.
Figure 8.5	Typical Meter Panel Mounting Surround	Revised previous figure 6.5. Illustration - Removed reference to earthing. Amended minimum and maximum heights to suit revised specifications. Table – Added reference to 200mm x 370mm panel and deleted 590mm x 400mm. Amended reference in 2 nd column. Notes – Amended clause references.
Figure 8.6	Typical Metering Details - One Customer Single Phase With Or Without Off Peak Load Panel Size 400mm W X 380mm H	Revised previous figure 6.6. Layout - Removed fixing holes and included centre line. Notes - alterations includes specification of panel wiring sizes.
Figure 8.7	Typical Metering Details - Two Customers Single Phase With Or Without Off Peak Loads Panel Size 400mm W X 380mm H	Revised previous figure 6.7. Layout - Removed fixing holes and included centre line. Notes - alterations includes specification of panel wiring sizes.
Figure 8.8	Typical Metering Details - One Customer Multiphase One Rate “Interval” Panel Size 400mm W X 380mm H	Revised previous figure 6.9. Layout - Removed fixing holes and included centre line. Notes - alterations includes specification of panel wiring sizes.
Figure 8.9	Typical Metering Details - One Customer Multiphase 2 Rate Panel Size 400mm W X 380mm H	Revised previous figure 6.10. Layout - Removed fixing holes and included centre lines. Notes - alterations includes specification of panel wiring sizes.
Figure 8.10	Typical Metering Details - Two Customers 1 x Multiphase One Rate or “Interval” meter & 1 x Single Phase One Rate or “Interval” meter Panel Size 400mm W X 380mm H	Revised previous figure 6.11. Title – Includes reference to “Interval” meter. Layout - Removed fixing holes and included centre lines. Notes - alterations includes specification of panel wiring sizes.

Figure 8.11	Typical Metering Details - Two Customers 1 x Multiphase One Rate or “Interval” meter & 1 x Single Phase Electronic Meter or “Interval” meter with Off Peak Load Panel Size 400mm W X 380mm H	Revised previous figure 6.12. Title – Includes reference to “Interval” meter. Layout - Removed fixing holes and included centre lines. Notes - alterations includes specification of panel wiring sizes. May not be available from all Distributors.
Figure 8.12	Typical Metering Details – One Customer Single Phase Storage Heating & Twin Element Off Peak Hot Water Service Panel Size 400mm W X 590mm H	Revised previous figure 6.20. Diagram - Removed fixing holes and included centre lines. Notes to refer to Distributor for controlled loads. Notes - alterations includes specification of panel wiring sizes specified. May not be ilable from all Distributors.
Figure 8.13	Typical Metering Details – One Customer Multi Phase Floor Heating & Two Twin Element Off Peak Hot Water Services Panel Size 400mm W X 590mm H	Revised previous figure 6.21. Diagram - Removed fixing holes and included centre lines. Notes (if permitted) to refer to Distributor for controlled loads. Notes - alterations includes specification of panel wiring sizes specified. May not be available from all Distributors.
Figure 8.14	Typical Metering Details – One Customer Multi Phase Winner with Off Peak Load Panel Size 400mm W X 590mm H	Revised previous figure 6.22. Diagram - Removed fixing holes and included centre lines. Notes (if permitted) to refer to Distributor for controlled loads. Notes - alterations includes specification of panel wiring sizes specified. May not be available from all Distributors.
Figure 8.15	Typical Metering Details – Four Customers All Single Phase Panel Size 400mm W X 590mm H	Revised previous figure 6.25. Diagram - Removed fixing holes, included centre lines and dimensions for equipment. Main switch reference changed to Service Protection Device. Notes - alterations includes specification of panel wiring sizes specified.
Figure 8.16	Typical Metering Details - Six Customers All Single Phase Panel Size 600mm W X 600mm H	Revised previous figure 6.26. Diagram - Removed fixing holes, included centre lines and dimensions for equipment. Main switch reference changed to Service Protection Device. Notes - alterations includes specification of panel wiring sizes specified.
Figure 8.17	Typical Metering Details - One Customer Multiphase for 1 or 2 Rate Panel Size 400mm W X 590mm H	Revised previous figure 6.28. Diagram - Removed fixing holes, included centre lines and dimensions for equipment. Notes - alterations includes specification of panel wiring sizes specified. May not be available from all Distributors.

Figure 8.18	Typical Metering Details - Two Customers Multi Phase 1 or 2 Rate “Interval” Meters. Panel Size 400mm W X 590mm H	Revised previous figure 6.29. Diagram - Removed fixing holes, included centre lines and dimensions for equipment. Main switch reference changed to Service Protection Device. Notes - alterations includes specification of panel wiring sizes specified.
Figure 8.19	Typical Metering Details – Three Customers Multiphase Winner 1 or 2 Rate “Interval” Meters Panel Size 600mm W X 600mm H	Revised previous figure 6.30. Diagram - Removed fixing holes, included centre lines and dimensions for equipment. Main switch reference changed to Service Protection Device. Notes - alterations includes specification of panel wiring sizes specified.
Figure 8.20	Typical Arrangement for Separately Metered Occupancies	Revised previous figure 7.1. Diagram – Customer 4 shown as Public Lighting customer.
Figure 8.21	Typical Wiring diagram for Separately Metered Occupancies including CT Metering for Proprietor	Revised previous figure 7.2. Diagram – “Distributor Isolator” term changed to “Supply Isolator”.
Figure 8.22	Typical Wiring diagram for Four CT Metered Occupancies and Proprietor with Direct Connected Metering	Revised previous figure 7.3. Diagram – “Main Switch Occupancies” changed to “Supply Isolator Occupancies”.
Figure 8.23	Typical Arrangement of Main Switchboard and Metering for 12 Occupancies	Previous figure 7.4.
Figure 8.24	Typical Arrangement for Limited Period Supply Pole	Revised previous figure 4.6. Retitled, reformatted, deleted previous notes and removed reference to items covered by the Wiring Rules.
Figure 8.25	Single Phase Meter Drilling Template	Previous figure 6.31.
Figure 8.26	Time Switch Drilling Template	Previous figure 6.33.
Figure 8.27	Multi Phase Mechanical Meter Drilling Template	Revised previous figure 6.32. Specific to mechanical meter. Deleted mounting hole diameters. New centre line. 12mm wiring holes changed to 14mm and slotted for 25mm ² and 35mm ² conductors.

Figure 8.28	Multi Phase Electronic Meter Drilling Template	Revised previous figure 6.32. Specific to electronic meter. New centre line. 12mm wiring holes changed to 14mm and slotted for 25mm ² and 35mm ² conductors.
Figure 8.29	Dimensions of Current Transformers and Minimum Space Required in Enclosures for Current Transformers	Revised previous figure 6.34. "T" and "W" dimensions transposed in column (d)
Figure 8.30	Minimum Space Required in Enclosures for Current Transformers	Adapted from previous figure 6.35 showing minimum and maximum heights.
Figure 8.31	Standard Current Transformer Meter Panel Layout	Revised previous figure 6.36. Meter (Detail A) Centre line changed from 165mm to 200mm.
Figure 8.32	Typical Wiring Diagram for L.V. Current Transformer Metering	Revised previous figure 6.37. Fuse ratings changed from 6A to 10A.

Section 9	High Voltage Electrical Installations	Previous Section 8. Revised and reformatted to Rules, and followed by an Appendix to retain useful information.
9.1	Scope	Supersedes previous clause 8.1. Now provides guidance up to 66kV and embedded generators.
9.2	Contractual Arrangements	Revised previous clause 8.2. Now states specific types of contracts.
9.3	Systems of Supply	Previous clause 8.3 with inclusion of 66kV and deletion of reference to frequency.
9.4	Preliminary Information	New clause - Specifies information required by the Distributor at the earliest opportunity to assist planning and identification of unsuitable proposals.
9.5	Installation Design	New clause - Specifies standards to be met.
9.6	Conversion from Low Voltage to High Voltage Supply	Revised previous clause 8.11. Means the same as previous clause.
9.7	General Design	Supersedes previous clause 8.5.
9.7.1	Circuit Connections	Revised previous clause 8.5.1. Advises supply connection points.
9.7.2	Control of Incoming High Voltage Supply	Revised previous clause 8.5.4. Means the same as previous clause.
9.8	Protection	Revised previous clause 8.7. Means the same as previous clause.
9.9	Insulation Co-ordination	Supersedes previous clause 8.5.2 and previous table 8.1 deleted. Now references Australian Standards only.
9.10	Short Time Withstand Current	Previous clause 8.5.3.
9.11	Earthing	Supersedes previous clause 8.10.

9.11.1	General	Supersedes previous clauses 8.10.1 and 8.10.3. References to “Combined” and “Separate” earthing systems deleted, and new reference to step and touch potentials.
9.11.2	Size of Earthing Conductors	Revised previous clause 8.10.4. New requirement to withstand maximum system design fault current and new reference to 66kV and 6.6kV.
9.11.3	Earthing of Metering Equipment	Supersedes previous clause 8.10.5. More detailed specifications.
9.12	Distributor’s Acceptance Requirements	New clause – Details information required from the customer prior to connection.
9.13	Metering	Revised previous clause 8.6. Details compliance with relevant codes.
9.13.1	General Requirements	Revised previous clause 8.6.1. Essentially the same as previous requirements with references to Section 8 for generic requirements. Earthing requirements covered by the Wiring Rules removed.
9.13.2	Single Feeder Metering Requirements	Revised previous clauses 8.6.2.1, 8.6.2.2 and 8.6.2.3.
9.13.2.1	Meter Panels	New minimum size of 600mm x 600mm and references to Section 8 for generic requirements.
9.13.2.2	Freestanding Metering Enclosures	Revised previous clause 8.6.2.4. Essentially same as previous requirements.
9.13.3	Metering Transformers	Supersedes previous clause 8.6.3.
9.13.3.1	Compliance	Consolidates compliance requirements from several sub-clauses into one clause.
9.13.3.2	Test Facilities	New clause. New requirement for a test marshalling point.
9.13.3.3	Mounted in Switchgear	Revised previous clause 8.6.3.3. Similar to previous requirements
9.13.3.4	Supplied From Underground Cable	Revised previous clause 8.6.3.2.
	a) Located Outdoors	Revised previous clause 8.6.3.2 (a) Essentially same as previous requirements.

	b) Located Indoors	Revised previous clause 8.6.3.2 (b) Essentially same as previous requirements.
9.13.3.5	Pole Mounted Metering Transformers - Overhead Supply	Revised previous clause 8.6.3.1. Clarifies responsibilities and standards.
Table 9.1	Metering Transformer Performance Requirements	Previous Table 8.2.
9.14	Testing and Commissioning	Revised previous clause 8.12. Essentially same as previous requirements.
9.15	Customer's HV Installation Operation and Maintenance	Supersedes previous clause 8.13.
9.15.1	Operating Procedures	Revised previous clause 8.13.1. New reference to Electricity Safety Act requirements and necessity to provide copy of operating procedures to the Distributor.
9.15.2	Trained Operators	Revised previous clause 8.13.2. New requirement for customer to provide current list of their HV operators to the Distributor.
9.15.3	Maintenance	Revised previous clause 8.13.3. Same as previous clause with requirement for spare fuses and equipment deleted.
Figure 9.1	HV Customer Example	New figure providing typical schematic arrangement.
Figure 9.2	HV Metering Structure – Foundation and Support details for Meter Box	Previous figure 8.1.
Figure 9.3	11kV and 22kV Metering Installations – Earthing Diagram	Previous figure 8.2.
Figure 9.4	Typical HV Metering Cubicle – Foundation Details	Previous figure 8.3. Title – “Standard” changed to “Typical”

Figure 9.5	Typical HV Metering Cubicle – General Arrangement	Previous figure 8.4. Title – “Standard” changed to “Typical”
Figure 9.6	Earthing Diagram – Typical HV Metering Cubicle	Previous figure 8.5. Note 2 and 4 reference to earthing amended.
Figure 9.7	Typical HV metering secondary wiring diagram	New figure to illustrate secondary wiring arrangements with marshalling point.
APPENDIX A	Considerations for High Voltage Installations	Information previously contained in Section 8.
A.1	Equipment and Standards	Revision of part of previous clause 8.4.
A.1.1	Circuit Breakers	Part of previous clause 8.4.
A.1.2	Transformers	Part of previous clause 8.4.
A.1.3	Underground Cables	Part of previous clause 8.4.
A.1.4	High Voltage Motors	Part of previous clause 8.4.
A.1.5	Generators	Part of previous clause 8.4.
A.1.6	Protection and Control Equipment	Part of previous clause 8.4.
A.2	Installation	
A.2.1	Underground Cables	Previous clause 8.9.1.
A.2.2	Overhead Lines	Revised previous clause 8.9.2.
A.2.3	Substations	Revised previous clause 8.9.3.

A.2.4	Energy and Time Impulses	Revised previous clause 8.6.4.
A.2.5	Operating Equipment	Part of previous clause 8.13.1.
A.3	High Voltage Earthing	Supersedes previous clause 8.10.
A.3.1	Combined Earthing System	Part of previous clause 8.10.2.
A.3.2	Separate Earthing System	Revised previous clause 8.10.3.
A.3.3	Other Earthing Requirements	Previous clause 8.10.5.

Notes