

National Electricity Rules Version 141

Historical Information

This version of the National Electricity Rules was current from 4 June 2020 to 17 June 2020.

National Electricity Rules

Version 141

Status Information

This is the latest electronically available version of the National Electricity Rules as at 4 June 2020.

This consolidated version of the National Electricity Rules was last updated on 4 June 2020 as a result of the commencement of the following amendments:

Schedule 1 of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020 No. 5

National Electricity Amendment (Minor changes 2) Rule 2020 No. 8

This consolidated version of the Rules reflects the initial Rules made by the SA Minister under section 90 of the National Electricity Law (**NEL**) as amended by:

Rules made by the South Australian Minister under sections 90A to 90F of the NEL; and

Rules made by the Australian Energy Market Commission under Part 7 Division 3 of the NEL.

Application of the National Energy Customer Framework related Rule

On 27 June 2012, the South Australian Minister made Rules relating to the implementation of the National Energy Customer Framework (**NECF**), including amendments to the National Electricity Rules under section 90D of the NEL in relation to small customer connections (Chapter 5A), Retail Markets including billing and credit support (Chapter 6B) and related provisions (**NECF related rule**).

The NECF related Rule commenced operation as a law of Tasmania, the Australian Capital Territory and the Commonwealth on 1 July 2012; South Australia on 1 February 2013, New South Wales on 1 July 2013 and Queensland on 1 July 2015.

On 1 July 2016, Victoria adopted the provisions of the NECF related rule that relate to small customer connections (Chapter 5A and related provisions). Victoria has not adopted the Retail Market provisions in Chapter 6B of the Rules.

The NECF related Rule does not apply in Western Australia or the Northern Territory until the National Energy Retail Law set out in the Schedule to the National Energy Retail Law (South Australia) Act 2011 is implemented as a law in that jurisdiction (clause 24, Part 11, Schedule 3 NEL).

The NECF related Rule can be found on the Australian Energy Market Commission's website under the 'National Electricity Rules', 'Rules made by the SA Ministers' tabs.

Provisions in force

All provisions displayed in this consolidated version of the Rules have commenced. As at the date of this consolidation the Australian Energy Market Commission has made the following Rules under Part 7 Division 3 of the NEL that have not yet commenced:

National Electricity Amendment (Integrated System Planning) Rule 2020 will commence operation on 1 July 2020.

Schedule 1 of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020 No. 7 will commence operation on 21 July 2020.

Schedule 2 of the National Electricity Amendment (Improving transparency and extending duration of MT PASA) Rule 2020 No. 1 will commence operation on 20 August 2020.

Schedule 1 of the National Electricity Amendment (System restart services, standards and testing) Rule 2020 No. 6 will commence operation on 2 November 2020.

Schedules 1 to 6 of the National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15 will commence operation on 1 July 2021.

Schedule 2 of the National Electricity Amendment (Participant compensation following market suspension) Rule 2018 No. 13 will commence operation on 1 July 2021, immediately after commencement of the National Electricity Amendment (Five minute settlement) Rule 2017 No. 15.

Schedule 2 of the National Electricity Amendment (Intervention compensation and settlement processes) Rule 2019 No. 5 will commence operation on 1 July 2021, immediately after the commencement of Schedule 6 of the National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15.

Schedule 2 of the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7 will commence operation on 1 July 2021, immediately after the commencement of Schedules 1 to 6 of the National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15.

Schedule 2 the National Electricity Amendment (Application of the regional reference node test to the Reliability and Emergency Reserve Trader) Rule 2019 No. 11 will commence operation on 1 July 2021 immediately after the commencement of Schedule 2 of the National Electricity Amendment (Intervention compensation and settlement processes) Rule 2019 No. 5.

Schedule 2 of the National Electricity Amendment (Application of compensation in relation to AEMO interventions) Rule 2019 No. 13 will commence operation on 1 July 2021 immediately after the commencement of Schedule 2 of the National Electricity Amendment (Application of the regional reference node test to the Reliability and Emergency Reserve Trader) Rule 2019 No. 11.

Schedule 2 of the National Electricity Amendment (Transmission loss factors) Rule 2020 No. 2 will commence operation on 1 July 2021, immediately after commencement of Schedule 2 of the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7.

Schedule 2 of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020 No. 7 will commence operation on 1 July 2021.

Schedules 1 to 4 of the National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14 will commence operation on 6 February 2022.

Schedules 3 to 5 of the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7 will commence operation on 6 February 2022, immediately after the commencement of Schedules 1 to 4 of the National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14.

Schedule 2 of the National Electricity Amendment (Minor changes) Rule 2020 No. 3 will commence operation on 6 February 2022, immediately after the commencement of Schedules 3 to 5 of the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7.

Schedule 2 of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020 No. 5 will commence operation on 4 June 2023.

TABLE OF CONTENTS

1.	Introduction	3
1.1	Preliminary.....	3
1.1.1	References to the Rules	3
1.1.2	Italicised expressions	3
1.1.3	[Deleted]	3
1.2	Background	3
1.3	Nomenclature of and references to provisions of a Chapter	3
1.3.1	Introduction.....	3
1.3.2	Parts, Divisions and Subdivisions.....	3
1.3.3	Rules, clauses, paragraphs, subparagraphs and other items	4
1.4	Effect of renumbering of provisions of the Rules	5
1.5	[Deleted].....	5
1.6	[Deleted].....	5
1.7	Interpretation.....	5
1.7.1	General.....	5
1.8	Notices.....	6
1.8.1	Service of notices under the Rules.....	6
1.8.2	Time of service	6
1.8.3	Counting of days.....	7
1.8.4	Reference to addressee	7
1.9	Retention of Records and Documents.....	7
1.10	[Deleted].....	7
1.11	AEMO Rule Funds	7
2.	Registered Participants and Registration	13
2.1	Registered Participants	13
2.1.1	Purpose	13
2.1.2	General.....	13
2.2	Generator.....	13
2.2.1	Registration as a Generator.....	13
2.2.2	Scheduled Generator.....	14
2.2.3	Non-Scheduled Generator	15
2.2.4	Market Generator.....	16
2.2.5	Non-Market Generator.....	16
2.2.6	Ancillary services generating unit	17
2.2.7	Semi-Scheduled Generator	18
2.3	Customer	20
2.3.1	Registration as a Customer	20
2.3.2	First-Tier Customer	21
2.3.3	Second-Tier Customer	21
2.3.4	Market Customer	21

2.3.5	Ancillary services load	22
2.3A	Small Generation Aggregator.....	24
2.3A.1	Registration.....	24
2.3AA	Market Ancillary Service Provider	25
2.3AA.1	Registration.....	25
2.4	Market Participant	26
2.4.1	Registration as a category of Market Participant.....	26
2.4.2	Eligibility	26
2.4A	Metering Coordinator	27
2.4A.1	Registration as a Metering Coordinator.....	27
2.4A.2	Eligibility	27
2.5	Network Service Provider	28
2.5.1	Registration as a Network Service Provider.....	28
2.5.1A	Dedicated Connection Asset Service Provider	29
2.5.2	Market Network Service	30
2.5.3	Scheduled Network Service.....	31
2.5A	Trader	32
2.5B	Reallocator.....	33
2.6	Special Participant.....	33
2.7	Intention to Commence Activities or Functions	33
2.8	Registered Participant Rights and Obligations	34
2.8.1	Rights and obligations	34
2.9	Application to be Registered as a Registered Participant.....	34
2.9.1	Applications for Registration.....	34
2.9.2	Registration as a Registered Participant	34
2.9.3	Registration as an Intermediary	35
2.9A	Transfer of Registration.....	36
2.9A.1	Definitions	36
2.9A.2	Applications for Transfer of Registration.....	37
2.9A.3	Approval for Transfer of Registration	37
2.10	Ceasing to be a Registered Participant	38
2.10.1	Notification of intention	38
2.10.2	Ceasing Participation	41
2.10.3	Liability after cessation.....	41
2.11	Participant Fees	41
2.11.1A	Application	41
2.11.1	Development of Participant fee structure	41
2.11.2	Payment of Participant fees	44
2.11.3	Budgeted revenue requirements	44
2.12	Interpretation of References to Various Registered Participants.....	45
2A.	Regional Structure	51

Part A	Region change applications and region determinations by AEMC	51
2A.1	Introduction to Chapter 2A	51
2A.1.1	Definitions	51
2A.1.2	AEMC determination of regions	51
2A.1.3	Publication of regions by AEMO	51
2A.2	Region change applications.....	51
2A.2.1	A complete region change application.....	51
2A.2.2	Identifying a congestion problem	52
2A.2.3	Explanation of economic efficiency of proposed region solution	52
2A.2.4	Region change application must be technically competent	52
2A.2.5	Alternative congestion management options	53
2A.2.6	Previous application relating to congestion problem.....	53
2A.2.7	AEMO to provide information to intending applicants	54
2A.2.8	AEMC may refuse to accept incomplete applications.....	54
2A.3	Acceptance of region change application by AEMC	55
2A.3.1	Acceptance of a region change application by AEMC	55
2A.3.2	Preliminary consultation prior to acceptance of a region change application.....	55
2A.4	First round consultation on region change application.....	56
2A.4.1	Notice of first round consultation	56
2A.4.2	Right to make written submissions during first round consultation period	56
2A.4.3	Alternative region solution put forward by third parties	56
2A.4.4	Acceptance as a formal alternative region solution by AEMC	57
2A.5	Provision of supplementary economic analysis.....	58
2A.5.1	AEMC may direct provision of supplementary analysis	58
2A.5.2	AEMC may direct AEMO to provide information	58
2A.6	Region determinations.....	59
2A.6.1	AEMC powers to make a region determination	59
2A.6.2	Matters for consideration in making region determination	59
2A.7	Draft region determination and second round consultation.....	60
2A.7.1	Publishing of draft region determination	60
2A.7.2	Second round consultation.....	60
2A.7.3	Right to make written submissions during second round consultation.....	60
2A.8	Final region determination	60
2A.8.1	Final determination for region change	60
2A.8.2	Formal publication of region determination	61
2A.9	Miscellaneous matters for region change process.....	61
2A.9.1	AEMC may extend periods of time specified in Chapter 2A	61
2A.9.2	Consultation meeting in relation to region change application	61
Part B	Implementation of region determination.....	62
2A.10	Purpose and application of Part B	62
2A.10.1	Purpose of Part B	62

2A.10.2	Application of Part B	62
2A.11	Region Change Implementation Procedure	62
2A.11.1	Submission of draft Region Change Implementation Procedure	62
2A.11.2	Approved Region Change Implementation Procedure	63
2A.12	AEMO region change implementation functions	63
2A.12.1	General implementation functions.....	63
2A.12.2	Implementation functions referable to published implementation procedure	63
2A.12.3	Amendment of current or subsequent Regions and Loss Factors Publication	63
2A.13	Continuity of regions	63
Schedule 2A.1	Glossary for Chapter 2A	64

3.	Market Rules	69
3.1	Introduction to Market Rules.....	69
3.1.1	Purpose	69
3.1.1A	Definitions	69
3.1.2	[Deleted]	70
3.1.3	[Deleted]	70
3.1.4	Market design principles.....	70
3.1.5	Time for undertaking action	71
3.2	AEMO's Market Responsibilities.....	71
3.2.1	Market functions of AEMO	71
3.2.2	Spot market	71
3.2.3	Power system operations	72
3.2.4	Non-market ancillary services function.....	72
3.2.5	[Deleted]	72
3.2.6	Settlements.....	72
3.3	Prudential Requirements	72
3.3.1	Market Participant criteria	72
3.3.2	Credit support	72
3.3.3	Acceptable credit criteria	73
3.3.4	Acceptable credit rating	74
3.3.4A	Prudential standard	74
3.3.5	Amount of credit support.....	74
3.3.6	Changes to credit support	74
3.3.7	Drawings on credit support.....	75
3.3.8	Credit limit procedures and prudential settings	75
3.3.8A	Security Deposits	77
3.3.9	Outstandings	77
3.3.10	Trading limit	78
3.3.11	Call notices	78
3.3.12	Typical accrual.....	79
3.3.13	Response to Call Notices	79
3.3.13A	Application of monies in the security deposit fund	80
3.3.14	Potential value of a transaction	81
3.3.15	Trading margin	82

3.3.16	Limitation on entry of transactions	82
3.3.17	Scheduled prices	82
3.3.18	Additional credit support	83
3.3.19	Consideration of other Market Participant transactions	83
3.4	Spot Market.....	83
3.4.1	Establishment of spot market.....	83
3.4.2	Trading day and trading interval.....	84
3.4.3	Spot market operations timetable	84
3.5	Regions.....	84
3.5.1	[Deleted]	84
3.5.2	[Deleted]	84
3.5.3	[Deleted]	84
3.5.4	[Deleted]	84
3.5.5	[Deleted]	84
3.5.6	[Deleted]	84
3.6	Network Losses and Constraints	84
3.6.1	Inter-regional losses	84
3.6.2	Intra-regional losses	86
3.6.2A	Load and generation data used to determine inter-regional loss factor equations and intra-regional loss factors	89
3.6.3	Distribution losses	90
3.6.4	Network constraints	95
3.6.5	Settlements residue due to network losses and constraints	95
3.7	Projected Assessment of System Adequacy.....	97
3.7.1	Administration of PASA.....	97
3.7.2	Medium term PASA	98
3.7.3	Short term PASA	100
3.7A	Congestion information resource	103
3.7B	Unconstrained intermittent generation forecast.....	105
3.7C	Energy Adequacy Assessment Projection	106
3.7D	Demand side participation information.....	109
3.7E	Register of DER information	111
3.7F	Generation information page.....	115
3.8	Central Dispatch and Spot Market Operation	116
3.8.1	Central Dispatch	116
3.8.2	Participation in central dispatch.....	118
3.8.3	Bid and offer aggregation guidelines.....	119
3.8.3A	Ramp rates	120
3.8.4	Notification of scheduled capacity	122
3.8.5	Submission timing	123
3.8.6	Generating unit offers for dispatch	124
3.8.6A	Scheduled network service offers for dispatch	126
3.8.7	Bids for scheduled load	127
3.8.7A	Market ancillary services offers.....	129
3.8.8	Validation of dispatch bids and offers	130

3.8.9	Default offers and bids.....	131
3.8.10	Network constraints	131
3.8.11	Ancillary services constraints	133
3.8.12	System scheduled reserve constraints.....	133
3.8.13	Notification of constraints	133
3.8.14	Dispatch under conditions of supply scarcity.....	133
3.8.15	[Deleted]	134
3.8.16	Equal priced dispatch bids and dispatch offers.....	134
3.8.17	Self-commitment	134
3.8.18	Self-decommitment.....	135
3.8.19	Dispatch inflexibilities.....	135
3.8.20	Pre-dispatch schedule	138
3.8.21	On-line dispatch process.....	140
3.8.22	Rebidding.....	141
3.8.22A	Offers, bids and rebids must not be false or misleading.....	143
3.8.23	Failure to conform to dispatch instructions	144
3.8.24	Scheduling errors	146
3.9	Price Determination.....	146
3.9.1	Principles applicable to spot price determination	146
3.9.2	Determination of spot prices.....	148
3.9.2A	Determination of ancillary services prices.....	149
3.9.2B	Pricing where AEMO determines a manifestly incorrect input.....	150
3.9.3	Pricing in the event of intervention by AEMO.....	151
3.9.3A	Reliability standard and settings review	153
3.9.3B	Reliability standard and settings review report	155
3.9.3C	Reliability standard.....	155
3.9.3D	Implementation of the reliability standard.....	156
3.9.4	Market Price Cap	156
3.9.5	Application of the Market Price Cap	157
3.9.6	Market Floor Price	158
3.9.6A	Application of the Market Floor Price	158
3.9.7	Pricing for constrained-on scheduled generating units.....	158
3.10	[Deleted]	159
3.11	Ancillary Services	159
3.11.1	Introduction.....	159
3.11.2	Market ancillary services	160
3.11.2A	AER reporting on market ancillary services markets	161
3.11.3	Acquisition of Network Support and Control Ancillary Service.....	162
3.11.4	Guidelines and objectives for acquisition of network support and control ancillary services	162
3.11.5	Tender process for network support and control ancillary services	163
3.11.6	Dispatch of network support and control ancillary services by AEMO.....	165
3.11.7	Guidelines and objectives for acquisition of system restart ancillary services by AEMO.....	166
3.11.8	Determination of electrical sub-network boundaries.....	167
3.11.9	Acquisition of system restart ancillary services by AEMO.....	167
3.11.10	Reporting	168
3.12	Market Intervention by AEMO	168

3.12.1	Intervention settlement timetable	168
3.12.2	Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention.....	169
3.12.3	Role of the Independent Expert in calculating payments in relation to intervention by AEMO and market suspension pricing schedule periods.....	173
3.12A	Mandatory restrictions.....	175
3.12A.1	Restriction offers	175
3.12A.2	Mandatory restrictions schedule	177
3.12A.3	Acquisition of capacity	177
3.12A.4	Rebid of capacity under restriction offers.....	178
3.12A.5	Dispatch of restriction offers	178
3.12A.6	Pricing during a restriction price trading interval.....	178
3.12A.7	Determination of funding restriction shortfalls	179
3.12A.8	Cancellation of a mandatory restriction period.....	183
3.12A.9	Review by AEMC.....	183
3.13	Market Information.....	184
3.13.1	Provision of information.....	184
3.13.2	Systems and procedures.....	184
3.13.3	Standing data	185
3.13.3AA	Standing data: Project developers.....	191
3.13.3A	Statement of opportunities	191
3.13.4	Spot market.....	193
3.13.4A	Market ancillary services	197
3.13.5	Ancillary services contracting by AEMO.....	198
3.13.5A	Settlements residue auctions	198
3.13.6	[Deleted]	198
3.13.6A	Report by AEMO.....	198
3.13.7	Monitoring of significant variation between forecast and actual prices by AER.....	199
3.13.8	Public information	200
3.13.9	[Deleted]	201
3.13.10	Market auditor	201
3.13.11	[Deleted]	201
3.13.12	NMI Standing Data.....	201
3.13.12A	NMI Standing Data Schedule	205
3.13.13	Inter-network tests	206
3.13.14	Carbon Dioxide Equivalent Intensity Index	206
3.14	Administered Price Cap and Market Suspension.....	209
3.14.1	Cumulative Price Threshold and Administered Price Cap	209
3.14.2	Application of Administered Price Cap.....	210
3.14.3	Conditions for suspension of the spot market.....	211
3.14.4	Declaration of market suspension.....	213
3.14.5	Pricing during market suspension.....	213
3.14.5A	Payment of compensation due to market suspension pricing schedule periods.....	215
3.14.5B	Claims for additional compensation due to market suspension pricing schedule periods	218

3.14.6	Compensation due to the application of an administered price cap or administered floor price.....	219
3.15	Settlements.....	224
3.15.1	Settlements management by AEMO	224
3.15.2	Electronic funds transfer.....	224
3.15.3	Connection point and virtual transmission node responsibility.....	224
3.15.4	Adjusted energy amounts connection points	225
3.15.5	Adjusted energy - transmission network connection points	225
3.15.5A	Adjusted energy - virtual transmission nodes.....	225
3.15.6	Spot market transactions.....	226
3.15.6A	Ancillary service transactions.....	227
3.15.7	Payment to Directed Participants.....	239
3.15.7A	Payment to Directed Participants for services other than energy and market ancillary services	240
3.15.7B	Claim for additional compensation by Directed Participants	243
3.15.8	Funding of Compensation for directions	245
3.15.8A	Funding of compensation for market suspension pricing schedule periods.....	249
3.15.9	Reserve settlements	251
3.15.9A	Procurer of last resort cost allocation	253
3.15.10	Administered price cap or administered floor price compensation payments	257
3.15.10A	Goods and services tax	258
3.15.10B	Restriction contract amounts	259
3.15.10C	Intervention and Market Suspension Pricing Schedule Period Settlements.....	260
3.15.11	Reallocation transactions	263
3.15.11A	Reallocation procedures.....	265
3.15.12	Settlement amount	265
3.15.13	Payment of settlement amount.....	266
3.15.14	Preliminary statements.....	266
3.15.15	Final statements	266
3.15.15A	Use of estimated settlement amounts by AEMO.....	267
3.15.16	Payment by market participants.....	267
3.15.17	Payment to market participants	267
3.15.18	Disputes	267
3.15.19	Revised Statements and Adjustments	268
3.15.20	Payment of adjustments	270
3.15.21	Default procedure	270
3.15.22	Maximum total payment in respect of a billing period.....	274
3.15.23	Maximum total payment in respect of a financial year	276
3.15.24	Compensation for reductions under clause 3.15.23	277
3.15.25	Interest on overdue amounts	277
3.16	Participant compensation fund	277
3.16.1	Establishment of Participant compensation fund	277
3.16.2	Dispute resolution panel to determine compensation	278
3.17	[Deleted].....	280
3.18	Settlements Residue Auctions	280
3.18.1	Settlements residue concepts	280

3.18.2	Auctions and eligible persons	281
3.18.3	Auction rules.....	282
3.18.3A	Secondary trading of SRD units	283
3.18.4	Proceeds and fees.....	283
3.18.4A	Secondary trading proceeds and margin	284
3.18.5	Settlement residue committee.....	285
3.19	Market Management Systems Access Procedures.....	286
3.20	Reliability and Emergency Reserve Trader	287
3.20.1	Definitions	287
3.20.2	Reliability and emergency reserve trader	287
3.20.3	Reserve contracts	288
3.20.4	Dispatch pricing methodology for unscheduled reserve contracts	290
3.20.5	AEMO's risk management and accounts relating to the reliability safety net.....	291
3.20.6	Reporting on RERT by AEMO	291
3.20.7	AEMO's exercise of the RERT	293
3.20.8	RERT Guidelines.....	295
3.20.9	[Deleted]	296
Schedule 3.1	Bid and Offer Validation Data	296
Schedule 3.2	[Deleted].....	300
Schedule 3.3	[Deleted].....	300
4.	Power System Security	303
4.1	Introduction.....	303
4.1.1	Purpose	303
4.2	Definitions and Principles	303
4.2.1	[Deleted]	303
4.2.2	Satisfactory Operating State	303
4.2.3	Credible and non-credible contingency events and protected events	304
4.2.3A	Re-classifying contingency events	305
4.2.3B	Criteria for re-classifying contingency events	306
4.2.4	Secure operating state and power system security.....	307
4.2.5	Technical envelope	307
4.2.6	General principles for maintaining power system security	308
4.2.7	Reliable Operating State	309
4.2.8	Time for undertaking action	309
4.3	Power System Security Responsibilities and Obligations	309
4.3.1	Responsibility of AEMO for power system security.....	309
4.3.2	System security	311
4.3.3	The role of System Operators	314
4.3.4	Network Service Providers	315
4.3.5	Market Customer obligations	320
4.4	Power System Frequency Control.....	321
4.4.1	Power system frequency control responsibilities	321
4.4.2	Operational frequency control requirements	321
4.4.2A	Primary Frequency Response Requirements	321

4.4.2B	Approval of variations or exemptions	323
4.4.3	Generator protection requirements	323
4.4.4	Instructions to enable inertia network services.....	324
4.4.5	Instructions to enable system strength services	325
4.5	Control of Power System Voltage	326
4.5.1	Power system voltage control	326
4.5.2	Reactive power reserve requirements	327
4.5.3	Audit and testing	327
4.6	Protection of Power System Equipment	328
4.6.1	Power system fault levels	328
4.6.2	Power system protection co-ordination	328
4.6.3	Audit and testing	328
4.6.4	Short-term thermal ratings of power system	328
4.6.5	Partial outage of power protection systems	328
4.6.6	System strength impact assessment guidelines.....	329
4.7	Power System Stability Co-ordination.....	330
4.7.1	Stability analysis co-ordination	330
4.7.2	Audit and testing	331
4.8	Power System Security Operations	331
4.8.1	Registered Participants' advice	331
4.8.2	Protection or control system abnormality	331
4.8.3	AEMO's advice on power system emergency conditions.....	331
4.8.4	Declaration of conditions	332
4.8.4A	Reserve level declaration guidelines.....	332
4.8.4B	Lack of reserve framework reporting	333
4.8.5	Managing declarations of conditions	334
4.8.5A	Determination of the latest time for AEMO intervention.....	334
4.8.5B	Notifications of last time of AEMO intervention	335
4.8.6	[Deleted]	335
4.8.7	Managing a power system contingency event	335
4.8.8	[Deleted]	336
4.8.9	Power to issue directions and clause 4.8.9 instructions	336
4.8.9A	System security directions	338
4.8.10	Disconnection of generating units and market network services	338
4.8.11	[Deleted]	338
4.8.12	System restart plan and local black system procedures	338
4.8.13	[Deleted]	340
4.8.14	Power system restoration	340
4.8.15	Review of operating incidents	340
4.8.16	AEMO reporting on frequency performance	342
4.9	Power System Security Related Market Operations	343
4.9.1	Load forecasting	343
4.9.2	Instructions to Scheduled Generators and Semi-Scheduled Generators	344
4.9.2A	Dispatch Instructions to Scheduled Network Service Providers	345
4.9.3	Instructions to Registered Participants	345
4.9.3A	Ancillary services instructions	346
4.9.3B	Compliance with dispatch instructions	347

4.9.4	Dispatch related limitations on Scheduled Generators and Semi-Scheduled Generators	347
4.9.4A	Dispatch related limitations on Scheduled Network Service Providers	348
4.9.5	Form of dispatch instructions	349
4.9.6	Commitment of scheduled generating units	349
4.9.7	De-commitment, or output reduction, by Scheduled Generators	350
4.9.8	General responsibilities of Registered Participants	351
4.9.9	Scheduled Generator plant changes	352
4.9.9A	Scheduled Network Service Provider plant changes	353
4.9.9B	Ancillary service plant changes	353
4.9.9C	Inertia network service availability changes	353
4.9.9D	System strength service availability changes	353
4.10	Power System Operating Procedures	353
4.10.1	Power system operating procedures	353
4.10.2	Transmission network operations	354
4.10.3	Operating interaction with distribution networks	355
4.10.4	Switching of a Distributor's high voltage networks	355
4.10.5	Switching of reactive power facilities	356
4.10.6	Automatic reclose	356
4.10.7	Inspection of facilities by AEMO	356
4.11	Power System Security Support	356
4.11.1	Remote control and monitoring devices	356
4.11.2	Operational control and indication communication facilities	358
4.11.3	Power system voice/data operational communication facilities	358
4.11.4	Records of power system operational communication	360
4.11.5	Agent communications	360
4.12	Nomenclature Standards	361
4.13	[Deleted]	362
4.14	Acceptance of Performance Standards	362
4.15	Compliance with Performance Standards	364
4.16	Transitioning arrangements for establishment of performance standards	367
4.16.1	Definitions	367
4.16.2	Exclusions	369
4.16.3	Notification and acceptance of performance standards	369
4.16.4	Actual capability	374
4.16.5	Criteria for, and negotiation of, performance standards	375
4.16.6	Consultation with and assistance by Network Service Providers	377
4.16.7	Referral to expert determination	378
4.16.8	Prior actions	378
4.16.9	Deemed performance standards	379
4.16.10	Modification of connection agreements	379
4.17	Expert determination	379
4.17.1	Performance standards committee and appointment of performance standards experts	379
4.17.2	Referral to performance standards expert	381

4.17.3	Determinations of performance standards experts.....	381
4.17.4	Other matters	382
4A.	Retailer Reliability Obligation	387
Part A	Introduction.....	387
4A.A	Definitions.....	387
4A.A.1	Definitions	387
4A.A.2	Forecast reliability gap materiality	390
4A.A.3	One-in-two year peak demand forecast	390
4A.A.4	Peak demand	390
Part B	Reliability Forecasts	391
4A.B.1	Reliability forecast.....	391
4A.B.2	Reliability forecast components	391
4A.B.3	Supporting materials	392
4A.B.4	Reliability Forecast Guidelines.....	392
4A.B.5	AER Forecasting Best Practice Guidelines	393
Part C	Reliability Instruments.....	394
Division 1	AEMO request for a reliability instrument.....	394
4A.C.1	AEMO request for a reliability instrument	394
4A.C.2	AEMO request for a T-3 reliability instrument	394
4A.C.3	AEMO request for a T-1 reliability instrument	394
4A.C.4	Related T-3 reliability instrument.....	395
4A.C.5	Notification of a closed forecast reliability gap at T-1	395
4A.C.6	Corrections to a request	395
4A.C.7	Withdrawing a request	396
Division 2	AER making of a reliability instrument	396
4A.C.8	AER making of a reliability instrument.....	396
4A.C.9	When a decision by the AER must be made.....	396
4A.C.10	T-1 reliability instrument components.....	397
4A.C.11	AER decision making criteria.....	397
4A.C.12	Reliability Instrument Guidelines	397
Part D	Liable Entities	398
4A.D.1	Application	398
4A.D.2	Liable entities.....	398
4A.D.3	New entrants	398
4A.D.4	Application to register as large opt-in customer	399
4A.D.5	Application to register as prescribed opt-in customer	400
4A.D.6	Thresholds.....	400
4A.D.7	Opt-in cut-off day	401
4A.D.8	AER approval of applications.....	401
4A.D.9	AER opt-in register	401
4A.D.10	Changes to register	402
4A.D.11	AER register taken to be correct.....	402
4A.D.12	AEMO Opt-In Procedures	403
4A.D.13	AER Opt-In Guidelines	403
Part E	Qualifying Contracts and Net Contract Position.....	404

Division 1	Key concepts	404
4A.E.1	Qualifying contracts.....	404
4A.E.2	Net contract position.....	405
Division 2	Firmness methodologies	405
4A.E.3	Firmness methodology.....	405
4A.E.4	Types of methodologies.....	406
4A.E.5	Approval of a bespoke firmness methodology	406
Division 3	Reporting net contract position	407
4A.E.6	Reporting requirements	407
Division 4	Adjustment of net contract position.....	408
4A.E.7	Adjustment of net contract position.....	408
Division 5	Contracts and Firmness Guidelines	409
4A.E.8	Contracts and Firmness Guidelines	409
Part F	Compliance with the Retailer Reliability Obligation	410
Division 1	Application	410
4A.F.1	Application	410
Division 2	Key concepts.....	410
4A.F.2	Compliance TI	410
4A.F.3	Share of one-in-two year peak demand forecast.....	410
Division 3	AEMO notifications to AER	412
4A.F.4	AEMO notification of compliance trading intervals	412
4A.F.5	AEMO compliance report.....	412
Division 4	AER assessment of compliance.....	412
4A.F.6	Reliability Compliance Procedures and Guidelines	412
4A.F.7	AER assessment.....	413
4A.F.8	AER notification to AEMO for PoLR costs	413
Division 5	Miscellaneous	414
4A.F.9	Demand response information	414
4A.F.10	PoLR cost procedures	414
Part G	Market Liquidity Obligation	414
Division 1	Preliminary.....	414
4A.G.1	Overview of Part G	414
4A.G.2	Purpose and application	415
Division 2	Market Generators and trading right holders	415
4A.G.3	Market Generators and generator capacity	415
4A.G.4	Trading rights and trading right holders	415
Division 3	Trading groups.....	416
4A.G.5	Trading group	416
4A.G.6	Controlling entity	416
Division 4	Traced capacity and trading group capacity	418
4A.G.7	Traced capacity	418
4A.G.8	Tracing capacity to trading groups	418
4A.G.9	Trading group capacity	419

Division 5	MLO generators and MLO groups	419
4A.G.10	MLO group	419
4A.G.11	MLO generator	419
Division 6	Market Generator information	419
4A.G.12	MLO register	419
4A.G.13	Market Generator information	421
4A.G.14	Applications to the AER	422
Division 7	Liquidity period	422
4A.G.15	Notices prior to a liquidity period	422
4A.G.16	Duration of liquidity period	423
Division 8	Liquidity obligation	423
4A.G.17	Liquidity obligation	423
4A.G.18	Performing a liquidity obligation	423
4A.G.19	Volume limits	425
4A.G.20	Appointment of MLO nominee	426
4A.G.21	Exemptions	426
Division 9	MLO products and MLO exchange	427
4A.G.22	MLO products	427
4A.G.23	MLO exchange	428
Division 10	Miscellaneous	429
4A.G.24	MLO compliance and reporting	429
4A.G.25	MLO Guidelines	429
Part H	Voluntary Book Build.....	430
4A.H.1	Purpose and application	430
4A.H.2	Book Build Procedures	430
4A.H.3	Commencement of voluntary book build	431
4A.H.4	Participation in the voluntary book build	431
4A.H.5	Book build fees	432
4A.H.6	Reporting	432
5.	Network Connection Access, Planning and Expansion	435
Part A	Introduction.....	435
5.1	Introduction to Chapter 5	435
5.1.1	Structure of this Chapter	435
5.1.2	Overview of Part B and connection and access under the Rules	435
Part B	Network Connection and Access	438
5.1A	Introduction to Part B	438
5.1A.1	Purpose and Application	438
5.1A.2	Principles	440
5.2	Obligations.....	441
5.2.1	Obligations of Registered Participants	441
5.2.2	Connection agreements	441
5.2.3	Obligations of network service providers	442
5.2.3A	Obligations of Market Network Service Providers	447
5.2.4	Obligations of customers	447

5.2.5	Obligations of Generators	449
5.2.6	Obligations of AEMO.....	450
5.2.6A	AEMO review of technical requirements for connection	450
5.2.7	Obligations of Dedicated Connection Asset Service Providers	451
5.2A	Transmission network connection and access.....	452
5.2A.1	Application	452
5.2A.2	Relevant assets.....	452
5.2A.3	Connection and access to transmission services.....	453
5.2A.4	Transmission services related to connection	454
5.2A.5	Publication and provision of information	458
5.2A.6	Negotiating principles.....	458
5.2A.7	Third party IUSAs	459
5.2A.8	Access framework for large dedicated connection assets.....	460
5.3	Establishing or Modifying Connection	462
5.3.1	Process and procedures	462
5.3.1A	Application of rule to connection of embedded generating units.....	462
5.3.2	Connection enquiry.....	463
5.3.3	Response to connection enquiry	464
5.3.4	Application for connection	467
5.3.4A	Negotiated access standards	469
5.3.4B	System strength remediation for new connections	472
5.3.5	Preparation of offer to connect	475
5.3.6	Offer to connect	476
5.3.7	Finalisation of connection agreements and network operating agreements	479
5.3.8	Provision and use of information.....	481
5.3.9	Procedure to be followed by a Generator proposing to alter a generating system	482
5.3.10	Acceptance of performance standards for generating plant that is altered	484
5.3.11	Notification of request to change normal voltage.....	485
5.3A	Establishing or modifying connection - embedded generation.....	485
5.3A.1	Application of rule 5.3A	485
5.3A.2	Definitions and miscellaneous	486
5.3A.3	Publication of Information.....	487
5.3A.4	Fees	488
5.3A.5	Enquiry	489
5.3A.6	Response to Enquiry	490
5.3A.7	Preliminary Response to Enquiry	490
5.3A.8	Detailed Response to Enquiry	491
5.3A.9	Application for connection	492
5.3A.10	Preparation of offer to connect	493
5.3A.11	Technical Dispute	494
5.3A.12	Network support payments and functions	494
5.3AA	Access arrangements relating to Distribution Networks	494
5.3B	Application for connection to declared shared network	498
5.4	Independent Engineer	498
5.4.1	Application	498

5.4.2	Establishment of a pool	499
5.4.3	Initiating the Independent Engineer process.....	499
5.4.4	Referral to the Adviser.....	500
5.4.5	Proceedings and decisions of the Independent Engineer.....	501
5.4.6	Costs of the Independent Engineer	501
5.4A	[Deleted]	502
5.4AA	[Deleted]	502
5.5	Commercial arbitration for prescribed and negotiated transmission services and large DCA services	502
5.5.1	Application	502
5.5.2	Notification of dispute	502
5.5.3	Appointment of commercial arbitrator	503
5.5.4	Procedures of commercial arbitrator.....	504
5.5.5	Powers of commercial arbitrator in determining disputes	504
5.5.6	Determination of disputes	505
5.5.7	Costs of dispute.....	506
5.5.8	Enforcement of agreement or determination and requirement for reasons	506
5.5.9	Miscellaneous	507
5.5A	[Deleted]	507
Part C	Post-Connection Agreement matters	507
5.6	Design of Connected Equipment	507
5.6.1	Application	507
5.6.2	Advice of inconsistencies	507
5.6.3	Additional information	508
5.6.4	Advice on possible non-compliance	508
5.6A	[Deleted]	509
5.7	Inspection and Testing	509
5.7.1	Right of entry and inspection.....	509
5.7.2	Right of testing	511
5.7.3	Tests to demonstrate compliance with connection requirements for generators.....	512
5.7.3A	Tests to demonstrate compliance with system strength remediation schemes.....	513
5.7.4	Routine testing of protection equipment.....	515
5.7.5	Testing by Registered Participants of their own plant requiring changes to normal operation.....	516
5.7.6	Tests of generating units requiring changes to normal operation.....	518
5.7.7	Inter-network power system tests	519
5.7.8	Contestable IUSA components	525
5.8	Commissioning.....	525
5.8.1	Requirement to inspect and test equipment	525
5.8.2	Co-ordination during commissioning	526
5.8.3	Control and protection settings for equipment	526
5.8.4	Commissioning program	527
5.8.5	Commissioning tests	528

5.9	Disconnection and Reconnection.....	528
5.9.1	Voluntary disconnection	528
5.9.2	Decommissioning procedures.....	529
5.9.3	Involuntary disconnection	529
5.9.4	Direction to disconnect	530
5.9.4A	Notification of disconnection	530
5.9.5	Disconnection during an emergency	531
5.9.6	Obligation to reconnect.....	531
Part D	Network Planning and Expansion.....	532
5.10	Network development generally	532
5.10.1	Content of Part D	532
5.10.2	Definitions	533
5.10.3	Interpretation.....	537
5.11	Forecasts of connection to transmission network and identification of system limitations.....	537
5.11.1	Forecasts for connection to transmission network.....	537
5.11.2	Identification of network limitations	537
5.12	Transmission annual planning process.....	538
5.12.1	Transmission annual planning review	538
5.12.2	Transmission Annual Planning Report.....	538
5.13	Distribution annual planning process.....	542
5.13.1	Distribution annual planning review	542
5.13.2	Distribution Annual Planning Report	544
5.13.3	Distribution system limitation template.....	545
5.13A	Distribution zone substation information.....	546
5.14	Joint planning.....	548
5.14.1	Joint planning obligations of Transmission Network Service Providers and Distribution Network Service Providers.....	548
5.14.2	Joint planning obligations of Distribution Network Service Providers and Distribution Network Service Providers.....	549
5.14.3	Joint planning obligations of Transmission Network Service Providers	550
5.14A	Joint planning in relation to retirement or de-ratings of network assets forming part of the Declared Shared Network	550
5.14B	TAPR Guidelines	550
5.14B.1	Development of TAPR Guidelines	550
5.15	Regulatory investment tests generally	550
5.15.1	Interested parties	550
5.15.2	Identification of a credible option.....	551
5.15.3	Review of costs thresholds	552
5.15.4	Costs determinations.....	554
5.16	Regulatory investment test for transmission.....	554
5.16.1	Principles	554
5.16.2	Regulatory investment test for transmission application guidelines	557

5.16.3	Investments subject to the regulatory investment test for transmission	558
5.16.4	Regulatory investment test for transmission procedures	560
5.16.5	Disputes in relation to application of regulatory investment test for transmission	567
5.16.6	Determination that preferred option satisfies the regulatory investment test for transmission	569
5.17	Regulatory investment test for distribution	569
5.17.1	Principles	569
5.17.2	Regulatory investment test for distribution application guidelines	571
5.17.3	Projects subject to the regulatory investment test for distribution	573
5.17.4	Regulatory investment test for distribution procedures	574
5.17.5	Disputes in relation to application of regulatory investment test for distribution	579
5.18	Construction of funded augmentations	581
5.18A	Large generator connections	581
5.18A.1	Definitions	581
5.18A.2	Register of large generator connections	582
5.18A.3	Impact assessment of large generator connections	583
5.18B	Completed embedded generation projects	583
5.18B.1	Definitions	583
5.18B.2	Register of completed embedded generation projects	584
5.19	SENE Design and Costing Study.....	584
5.19.1	Definitions	584
5.19.2	Interpretation.....	585
5.19.3	Request for SENE Design and Costing Study	585
5.19.4	Content of SENE Design and Costing Study	586
5.19.5	Co-operation of other Network Service Providers	587
5.19.6	Publication of SENE Design and Costing Study report	588
5.19.7	Provision and use of information.....	588
5.20	National transmission planning	589
5.20.1	Preliminary consultation	589
5.20.2	Publication of NTNDP	589
5.20.3	Development strategies for national transmission flow paths	592
5.20.4	NTNDP database	592
5.20.5	Jurisdictional planning bodies and jurisdictional planning representatives	593
5.20.6	NTP Functions	593
5.20.7	Inertia and system strength requirements methodologies	594
5.20A	Frequency management planning	595
5.20A.1	Power system frequency risk review	595
5.20A.2	Power system frequency risk review process	596
5.20A.3	Power system frequency risk review report.....	596
5.20A.4	Request for protected event declaration.....	597
5.20A.5	Request to revoke a protected event declaration	597
5.20B	Inertia sub-networks and requirements	598
5.20B.1	Boundaries of inertia sub-networks	598

5.20B.2	Inertia requirements	598
5.20B.3	Inertia shortfalls	599
5.20B.4	Inertia Service Provider to make available inertia services	600
5.20B.5	Inertia support activities	602
5.20B.6	Inertia network services information and approvals	603
5.20C	System strength requirements	605
5.20C.1	System strength requirements	605
5.20C.2	Fault level shortfalls	605
5.20C.3	System Strength Service Provider to make available system strength services.....	606
5.20C.4	System strength services information and approvals.....	608
5.21	AEMO's obligation to publish information and guidelines and provide advice	610
5.22	Last resort planning power	611
Schedule 5.1a	System standards	614
S5.1a.1	Purpose	614
S5.1a.2	Frequency	615
S5.1a.3	System stability.....	615
S5.1a.4	Power frequency voltage	615
S5.1a.5	Voltage fluctuations.....	616
S5.1a.6	Voltage waveform distortion	616
S5.1a.7	Voltage unbalance	617
S5.1a.8	Fault clearance times	618
Schedule 5.1	Network Performance Requirements to be Provided or Co-ordinated by Network Service Providers	619
S5.1.1	Introduction.....	619
S5.1.2	Network reliability.....	620
S5.1.2.1	Credible contingency events.....	620
S5.1.2.2	Network service within a region.....	621
S5.1.2.3	Network service between regions	622
S5.1.3	Frequency variations.....	622
S5.1.4	Magnitude of power frequency voltage	622
S5.1.5	Voltage fluctuations.....	623
S5.1.6	Voltage harmonic or voltage notching distortion	624
S5.1.7	Voltage unbalance	625
S5.1.8	Stability.....	626
S5.1.9	Protection systems and fault clearance times	627
S5.1.10	Load, generation and network control facilities	630
S5.1.10.1	General.....	630
S5.1.10.1a	Emergency frequency control schemes	631
S5.1.10.2	Distribution Network Service Providers.....	632
S5.1.10.3	Transmission Network Service Providers	632
S5.1.11	Automatic reclosure of transmission or distribution lines	633
S5.1.12	Rating of transmission lines and equipment.....	633
S5.1.13	Information to be provided	634
Schedule 5.2	Conditions for Connection of Generators	634
S5.2.1	Outline of requirements	634
S5.2.2	Application of Settings	635

S5.2.3	Technical matters to be coordinated	635
S5.2.4	Provision of information.....	636
S5.2.5	Technical requirements.....	639
S5.2.5.1	Reactive power capability.....	639
S5.2.5.2	Quality of electricity generated.....	640
S5.2.5.3	Generating system response to frequency disturbances	641
S5.2.5.4	Generating system response to voltage disturbances.....	644
S5.2.5.5	Generating system response to disturbances following contingency events	646
S5.2.5.6	Quality of electricity generated and continuous uninterrupted operation	654
S5.2.5.7	Partial load rejection	654
S5.2.5.8	Protection of generating systems from power system disturbances	654
S5.2.5.9	Protection systems that impact on power system security.....	656
S5.2.5.10	Protection to trip plant for unstable operation	657
S5.2.5.11	Frequency control	658
S5.2.5.12	Impact on network capability	661
S5.2.5.13	Voltage and reactive power control	662
S5.2.5.14	Active power control	669
S5.2.6	Monitoring and control requirements	671
S5.2.6.1	Remote Monitoring.....	671
S5.2.6.2	Communications equipment	673
S5.2.7	Power station auxiliary supplies	674
S5.2.8	Fault current.....	674
Schedule 5.3	Conditions for Connection of Customers	676
S5.3.1a	Introduction to the schedule.....	676
S5.3.1	Information	677
S5.3.2	Design standards	678
S5.3.3	Protection systems and settings	679
S5.3.4	Settings of protection and control systems	680
S5.3.5	Power factor requirements	681
S5.3.6	Balancing of load currents	681
S5.3.7	Voltage fluctuations	682
S5.3.8	Harmonics and voltage notching	682
S5.3.9	Design requirements for Network Users' substations	683
S5.3.10	Load shedding facilities	683
Schedule 5.3a	Conditions for connection of Market Network Services	684
S5.3a.1a	Introduction to the schedule.....	684
S5.3a.1	Provision of Information.....	685
S5.3a.2	Application of settings	686
S5.3a.3	Technical matters to be co-ordinated.....	687
S5.3a.4	Monitoring and control requirements	688
S5.3a.4.1	Remote Monitoring.....	688
S5.3a.4.2	[Deleted]	688
S5.3a.4.3	Communications equipment	688
S5.3a.5	Design standards	689
S5.3a.6	Protection systems and settings	689
S5.3a.7	[Deleted]	691
S5.3a.8	Reactive power capability.....	691

S5.3a.9	Balancing of load currents	691
S5.3a.10	Voltage fluctuations	692
S5.3a.11	Harmonics and voltage notching	692
S5.3a.12	Design requirements for Market Network Service Providers' substations	692
S5.3a.13	Market network service response to disturbances in the power system	693
S5.3a.14	Protection of market network services from power system disturbances	693
Schedule 5.4	Information to be Provided with Preliminary Enquiry	694
Schedule 5.4A	Preliminary Response.....	695
Schedule 5.4B	Detailed Response to Enquiry.....	697
Schedule 5.5	Technical Details to Support Application for Connection and Connection Agreement.....	699
S5.5.1	Introduction to the schedule	699
S5.5.2	Categories of data	699
S5.5.3	Review, change and supply of data	700
S5.5.4	Data Requirements.....	700
S5.5.5	Asynchronous generating unit data	701
S5.5.6	Generating units smaller than 30MW data	701
S5.5.7	Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines	701
Schedule 5.5.1	[Deleted]	704
Schedule 5.5.2	[Deleted]	704
Schedule 5.5.3	Network and plant technical data of equipment at or near connection point.....	704
Schedule 5.5.4	Network Plant and Apparatus Setting Data	707
Schedule 5.5.5	Load Characteristics at Connection Point.....	709
Schedule 5.6	Terms and Conditions of Connection agreements and network operating agreements	710
Part A	Connection agreements	710
Part B	Network Operating Agreements	711
Schedule 5.7	Annual Forecast Information for Planning Purposes	712
Schedule 5.8	Distribution Annual Planning Report	714
Schedule 5.9	Demand side engagement document (clause 5.13.1(h))	720
Schedule 5.10	Information requirements for Primary Transmission Network Service Providers (clause 5.2A.5)	721
Schedule 5.11	Negotiating principles for negotiated transmission services (clause 5.2A.6)	725
Schedule 5.12	Negotiating principles for large DCA services	726
5A.	Electricity connection for retail customers	731
Part A	Preliminary.....	731
5A.A.1	Definitions	731

5A.A.2	Application of this Chapter.....	734
5A.A.3	Small Generation Aggregator deemed to be agent of a retail customer.....	734
Part B	Standardised offers to provide basic and standard connection services	735
Division 1	Basic connection services	735
5A.B.1	Obligation to have model standing offer to provide basic connection services.....	735
5A.B.2	Proposed model standing offer for basic connection services.....	735
5A.B.3	Approval of terms and conditions of model standing offer to provide basic connection services	736
Division 2	Standard connection services.....	737
5A.B.4	Standard connection services.....	737
5A.B.5	Approval of model standing offer to provide standard connection services	738
Division 3	Miscellaneous	738
5A.B.6	Amendment etc of model standing offer	738
5A.B.7	Publication of model standing offers.....	739
Part C	Negotiated connection	739
5A.C.1	Negotiation of connection.....	739
5A.C.2	Process of negotiation.....	740
5A.C.3	Negotiation framework.....	740
5A.C.4	Fee to cover cost of negotiation.....	742
Part D	Application for connection service	742
Division 1	Information	742
5A.D.1	Publication of information.....	742
5A.D.1A	Register of completed embedded generation projects	743
Division 2	Preliminary enquiry	744
5A.D.2	Preliminary enquiry	744
Division 3	Applications.....	745
5A.D.3	Application process	745
5A.D.4	Site inspection.....	746
Part E	Connection charges.....	746
5A.E.1	Connection charge principles	746
5A.E.2	Itemised statement of connection charges	748
5A.E.3	Connection charge guidelines.....	748
5A.E.4	Payment of connection charges	750
Part F	Formation and integration of connection contracts	750
Division 1	Offer and acceptance – basic and standard connection services.....	750
5A.F.1	Distribution Network Service Provider's response to application	750
5A.F.2	Acceptance of connection offer	751
5A.F.3	Offer and acceptance—application for expedited connection.....	751
Division 2	Offer and acceptance – negotiated connection.....	751
5A.F.4	Negotiated connection offer	751

Division 3	Formation of contract.....	752
5A.F.5	Acceptance of connection offer	752
Division 4	Contractual performance.....	752
5A.F.6	Carrying out connection work	752
5A.F.7	Retailer required for energisation where new connection	753
Part G	Dispute resolution between Distribution Network Service Providers and customers.....	753
5A.G.1	Relevant disputes	753
5A.G.2	Determination of dispute	753
5A.G.3	Termination of proceedings	754
SCHEDULE 5A.1 – Minimum content requirements for connection contract		754
Part A	Connection offer not involving embedded generation	754
Part B	Connection offer involving embedded generation	755
6.	Economic Regulation of Distribution Services	759
Part A	Introduction.....	759
6.1	Introduction to Chapter 6.....	759
6.1.1	AER's regulatory responsibility	759
6.1.1A	[Deleted]	759
6.1.2	Structure of this Chapter	759
6.1.3	Access to direct control services and negotiated distribution services	760
6.1.4	Prohibition of DUOS charges for the export of energy	760
Part B	Classification of Distribution Services and Distribution Determinations.....	760
6.2	Classification	760
6.2.1	Classification of distribution services	760
6.2.2	Classification of direct control services as standard control services or alternative control services	761
6.2.3	Term for which classification operates	762
6.2.3A	Distribution Service Classification Guidelines.....	762
6.2.4	Duty of AER to make distribution determinations	763
6.2.5	Control mechanisms for direct control services	763
6.2.6	Basis of control mechanisms for direct control services	764
6.2.7	Negotiated distribution services	764
6.2.8	Guidelines	764
Part C	Building Block Determinations for standard control services	765
6.3	Building block determinations.....	765
6.3.1	Introduction.....	765
6.3.2	Contents of building block determination	765
6.4	Post-tax revenue model	766
6.4.1	Preparation, publication and amendment of post-tax revenue model.....	766
6.4.2	Contents of post-tax revenue model	766
6.4.3	Building block approach.....	766
6.4.4	Shared assets	768

6.4.5	Expenditure Forecast Assessment Guidelines	769
6.4A	Capital expenditure incentive mechanisms	769
6.4B	Asset exemptions.....	770
6.4B.1	Asset exemption decisions and Asset Exemption Guidelines	770
6.4B.2	Exemption applications	771
6.5	Matters relevant to the making of building block determinations.....	771
6.5.1	Regulatory asset base.....	771
6.5.2	Return on capital.....	772
6.5.3	Estimated cost of corporate income tax	773
6.5.4	[Deleted]	773
6.5.5	Depreciation	773
6.5.6	Forecast operating expenditure	774
6.5.7	Forecast capital expenditure	776
6.5.8	Efficiency benefit sharing scheme	780
6.5.8A	Capital expenditure sharing scheme	781
6.5.9	The X factor	782
6.5.10	Pass through events.....	783
6.6	Adjustments after making of building block determination.....	783
6.6.1	Cost pass through.....	783
6.6.1A	Reporting on jurisdictional schemes.....	790
6.6.2	Service target performance incentive scheme	791
6.6.3	Demand management incentive scheme	792
6.6.3A	Demand management innovation allowance mechanism.....	793
6.6.4	Small-scale incentive scheme	794
6.6.5	Reopening of distribution determination for capital expenditure.....	795
6.6A	Contingent Projects	798
6.6A.1	Acceptance of a contingent project in a distribution determination	798
6.6A.2	Amendment of distribution determination for contingent project	800
Part D	Negotiated distribution services	805
6.7	Negotiated distribution services	805
6.7.1	Principles relating to access to negotiated distribution services.....	805
6.7.2	Determination of terms and conditions of access for negotiated distribution services	806
6.7.3	Negotiating framework determination.....	807
6.7.4	Negotiated Distribution Service Criteria determination	807
6.7.5	Preparation of and requirements for negotiating framework for negotiated distribution services	808
6.7.6	Confidential information	810
Part DA	Connection policies	810
6.7A	Connection policy requirements.....	810
6.7A.1	Preparation of, and requirements for, connection policy	810
Part E	Regulatory proposal and proposed tariff structure statement.....	811
6.8	Regulatory proposal and proposed tariff structure statement.....	811
6.8.1	AER's framework and approach paper	811

6.8.1A	Notification of approach to forecasting expenditure	813
6.8.2	Submission of regulatory proposal, tariff structure statement and exemption application.....	814
6.9	Preliminary examination and consultation	816
6.9.1	Preliminary examination.....	816
6.9.2	Resubmission of proposal.....	816
6.9.2A	Confidential information	816
6.9.3	Consultation	817
6.10	Draft distribution determination and further consultation.....	818
6.10.1	Making of draft distribution determination	818
6.10.2	Publication of draft determination and consultation.....	818
6.10.3	Submission of revised proposal	819
6.10.4	Submissions on specified matters	819
6.11	Distribution determination	820
6.11.1	Making of distribution determination	820
6.11.1A	Out of scope revised regulatory proposal or late submissions	820
6.11.2	Notice of distribution determination.....	821
6.11.3	Commencement of distribution determination	821
6.12	Requirements relating to draft and final distribution determinations.....	821
6.12.1	Constituent decisions	821
6.12.2	Reasons for decisions	825
6.12.3	Extent of AER's discretion in making distribution determinations	825
6.13	Revocation and substitution of distribution determination for wrong information or error	827
6.14	Miscellaneous	827
6.14A	Distribution Confidentiality Guidelines	828
Part F	Cost Allocation	828
6.15	Cost allocation	828
6.15.1	Duty to comply with Cost Allocation Method	828
6.15.2	Cost Allocation Principles	828
6.15.3	Cost Allocation Guidelines.....	829
6.15.4	Cost Allocation Method.....	830
Part G	Distribution consultation procedures	831
6.16	Distribution consultation procedures	831
Part H	Ring-Fencing Arrangements for Distribution Network Service Providers.....	832
6.17	Distribution Ring-Fencing Guidelines	832
6.17.1	Compliance with Distribution Ring-Fencing Guidelines	832
6.17.2	Development of Distribution Ring-Fencing Guidelines.....	832
Part I	Distribution Pricing Rules	833
6.18	Distribution Pricing Rules	833
6.18.1	Application of this Part.....	833
6.18.1A	Tariff structure statement.....	833

6.18.1B	Amending a tariff structure statement with the AER's approval	834
6.18.1C	Sub-threshold tariffs	836
6.18.2	Pricing proposals	836
6.18.3	Tariff classes	838
6.18.4	Principles governing assignment or re-assignment of retail customers to tariff classes and assessment and review of basis of charging	838
6.18.5	Pricing principles	839
6.18.6	Side constraints on tariffs for standard control services	841
6.18.7	Recovery of designated pricing proposal charges	841
6.18.7A	Recovery of jurisdictional scheme amounts	842
6.18.8	Approval of pricing proposal	845
6.18.9	Publication of information about tariffs and tariff classes	846
6.19.	Data Required for Distribution Service Pricing	847
6.19.1	Forecast use of networks by Distribution Customers and Embedded Generators	847
6.19.2	Confidentiality of distribution network pricing information	847
Part J	Billing and Settlements	847
6.20	Billing and Settlements Process	847
6.20.1	Billing for distribution services	847
6.20.2	Minimum information to be provided in distribution network service bills	849
6.20.3	Settlement between Distribution Network Service Providers	849
6.20.4	Obligation to pay	850
Part K	Prudential requirements, capital contributions and prepayments	850
6.21	Distribution Network Service Provider Prudential Requirements	850
6.21.1	Prudential requirements for distribution network service	850
6.21.2	Capital contributions, prepayments and financial guarantees	851
6.21.3	Treatment of past prepayments and capital contributions	851
Part L	Dispute resolution	851
6.22	Dispute Resolution	851
6.22.1	Dispute Resolution by the AER	851
6.22.2	Determination of dispute	852
6.22.3	Termination of access dispute without access determination	853
Part M	Separate disclosure of transmission and distribution charges	853
6.23	Separate disclosure of transmission and distribution charges	853
Part N	Dual Function Assets	854
6.24	Dual Function Assets	854
6.24.1	Application of this Part	854
6.24.2	Dual Function Assets	854
6.25	AER determination of applicable pricing regime for Dual Function Assets	855
6.26	Division of Distribution Network Service Provider's revenue	856

Part O	Annual Benchmarking Report	857
6.27	Annual Benchmarking Report	857
Part P	Distribution Reliability Measures Guidelines	857
6.28	Distribution Reliability Measures Guidelines	857
Schedule 6.1	Contents of building block proposals.....	858
S6.1.1	Information and matters relating to capital expenditure.....	858
S6.1.2	Information and matters relating to operating expenditure	859
S6.1.3	Additional information and matters.....	859
Schedule 6.2	Regulatory Asset Base	862
S6.2.1	Establishment of opening regulatory asset base for a regulatory control period.....	862
S6.2.2	Prudence and efficiency of capital expenditure.....	866
S6.2.2A	Reduction for inefficient past capital expenditure.....	867
S6.2.2B	Depreciation.....	869
S6.2.3	Roll forward of regulatory asset base within the same regulatory control period.....	869
6A.	Economic Regulation of Transmission Services	873
Part A	Introduction.....	873
6A.1	Introduction to Chapter 6A	873
6A.1.1	Economic regulation of transmission services generally.....	873
6A.1.2	[Deleted]	874
6A.1.3	[Deleted]	874
6A.1.4	National regulatory arrangements.....	874
6A.1.5	Application of Chapter 6A to Market Network Service Providers.....	874
6A.1.6	Application of Chapter 6A to AEMO and declared transmission system operators	874
Part B	Transmission Determinations Generally	875
6A.2	Transmission determinations	875
6A.2.1	Duty of AER to make transmission determinations	875
6A.2.2	Components of transmission determinations.....	875
6A.2.3	Guidelines	875
Part C	Regulation of Revenue - Prescribed Transmission Services.....	876
6A.3	Allowed revenue from prescribed transmission services	876
6A.3.1	Allowed revenue for regulatory year	876
6A.3.2	Adjustment of maximum allowed revenue	876
6A.4	Revenue determinations	876
6A.4.1	Introduction.....	876
6A.4.2	Contents of revenue determination	876
6A.5	Post-tax revenue model	877
6A.5.1	Introduction.....	877
6A.5.2	Preparation, publication and amendment of post-tax revenue model.....	878
6A.5.3	Contents of post-tax revenue model	878
6A.5.4	Building blocks approach	879

6A.5.5	Shared assets	880
6A.5.6	Expenditure Forecast Assessment Guidelines	881
6A.5A	Capital expenditure incentive mechanisms	881
6A.6	Matters relevant to the making of revenue determinations.....	882
6A.6.1	Regulatory asset base.....	882
6A.6.2	Return on capital.....	883
6A.6.3	Depreciation.....	883
6A.6.4	Estimated cost of corporate income tax	885
6A.6.5	Efficiency benefit sharing scheme	885
6A.6.5A	Capital expenditure sharing scheme	886
6A.6.6	Forecast operating expenditure	887
6A.6.7	Forecast capital expenditure	890
6A.6.8	The X factor	893
6A.6.9	Pass through events.....	894
6A.7	Matters relevant to the adjustment of revenue cap after making of revenue determination	894
6A.7.1	Reopening of revenue determination for capital expenditure.....	894
6A.7.2	Network support pass through	897
6A.7.3	Cost pass through.....	899
6A.7.4	Service target performance incentive scheme	904
6A.7.5	Small-scale incentive scheme	905
6A.7.6	Demand management innovation allowance mechanism	906
6A.8	Contingent Projects	907
6A.8.1	Acceptance of a Contingent Project in a revenue determination.....	907
6A.8.2	Amendment of revenue determination for contingent project.....	909
Part D	[Deleted]	913
Part E	Procedure - Revenue determinations and pricing methodologies	913
6A.10	Revenue Proposal and proposed pricing methodology	913
6A.10.1A	AER's framework and approach paper	913
6A.10.1B	Notification of approach to forecasting expenditure	915
6A.10.1	Submission of proposal, pricing methodology and information	915
6A.10.2	[Deleted]	916
6A.11	Preliminary examination and consultation	916
6A.11.1	Preliminary examination and determination of non-compliance with relevant requirements	916
6A.11.2	Resubmission of proposal, framework, pricing methodology or information	917
6A.11.2A	Confidential information	917
6A.11.3	Consultation	918
6A.12	Draft decision and further consultation	919
6A.12.1	Making of draft decision.....	919
6A.12.2	Publication of draft decision and consultation.....	919
6A.12.3	Submission of revised proposal or pricing methodology	920
6A.12.4	Submissions on specified matters	921

6A.13	Final decision.....	921
6A.13.1	Making of final decision	921
6A.13.2	Refusal to approve amounts, values, framework or pricing methodology	921
6A.13.2A	Out of scope revised documents or late submissions	922
6A.13.3	Notice of final decision.....	923
6A.13.4	Making of transmission determination	923
6A.14	Requirements relating to draft and final decisions	923
6A.14.1	Contents of decisions	923
6A.14.2	Reasons for decisions	925
6A.14.3	Circumstances in which matters must be approved or accepted	926
6A.15	Revocation of revenue determination or amendment of pricing methodology for wrong information or error	928
6A.16	Miscellaneous	929
6A.16A	Transmission Confidentiality Guidelines	929
Part F	Information Disclosure.....	930
6A.17	Information disclosure by Transmission Network Service Providers.....	930
6A.17.1	Information to be provided to AER	930
6A.17.2	Information Guidelines	931
6A.18	[Deleted]	932
Part G	Cost Allocation	932
6A.19	Cost allocation	932
6A.19.1	Duty to comply with Cost Allocation Methodology	932
6A.19.2	Cost Allocation Principles	932
6A.19.3	Cost Allocation Guidelines.....	933
6A.19.4	Cost Allocation Methodology.....	934
Part H	Transmission Consultation Procedures	935
6A.20	Transmission consultation procedures	935
Part I	Ring-Fencing Arrangements for Transmission Network Service Providers.....	936
6A.21	Transmission Ring-Fencing Guidelines	936
6A.21.1	Compliance with Transmission Ring-Fencing Guidelines	936
6A.21.2	Development of Transmission Ring-Fencing Guidelines.....	936
Part J	Prescribed Transmission Services - Regulation of Pricing	938
6A.22	Terms used in Part J.....	938
6A.22.1	Aggregate annual revenue requirement (AARR)	938
6A.22.2	Annual service revenue requirement (ASRR)	938
6A.22.3	Meaning of attributable cost share.....	938
6A.22.4	Meaning of attributable connection point cost share	938
6A.23	Pricing Principles for Prescribed Transmission Services	939
6A.23.1	Introduction.....	939

6A.23.2	Principles for the allocation of the aggregate annual revenue requirement	939
6A.23.3	Principles for the allocation of the annual service revenue requirement to connection points.....	940
6A.23.4	Principles for the recovery of the Annual Service Revenue Requirement as prices.....	942
6A.24	Pricing methodology	944
6A.24.1	Pricing methodologies generally	944
6A.24.2	Publication of pricing methodology and transmission network prices.....	945
6A.24.3	Basis for setting prices pending approval of pricing methodology	945
6A.24.4	Basis for setting prices pending approval of maximum allowed revenue.....	946
6A.25	Pricing methodology guidelines for prescribed transmission services	947
6A.25.1	Making and amending of pricing methodology guidelines	947
6A.25.2	Contents of pricing methodology guidelines	947
6A.26	Prudent discounts	948
6A.26.1	Agreements for prudent discounts for prescribed transmission services	948
6A.26.2	Application to AER for approval of proposed prudent discount amounts	950
6A.27	Billing Process	951
6A.27.1	Billing for prescribed transmission services	951
6A.27.1A	Billing of modified load export charges	951
6A.27.2	Minimum information to be provided in network service bills	951
6A.27.3	Obligation to pay charges for prescribed transmission services	952
6A.27.4	Payments between Transmission Network Service Providers in the same region	952
6A.27.5	Calculation of financial transfers between Transmission Network Service Providers in the same region	952
6A.28	Prudential Requirements	953
6A.28.1	Prudential Requirements for prescribed transmission services	953
6A.28.2	Capital contribution or prepayment for a specific asset	953
6A.28.3	Treatment of past capital contributions	953
6A.29	Multiple Transmission Network Service Providers.....	953
6A.29.1	Multiple Transmission Network Service Providers within a region	953
6A.29.2	Single Transmission Network Service Provider within a region.....	954
6A.29.3	Allocation over several regions	955
6A.29A	Modified load export charges	955
6A.29A.1	Single Transmission Network Service Provider in a Region	955
6A.29A.2	Calculation of the modified load export charges	955
6A.29A.3	Calculation of adjustments to the modified load export charge	956
6A.29A.4	Billing the modified load export charge	956
6A.29A.5	Allocation and billing process where multiple Transmission Network Service Providers in a Region.....	956

Part K	Commercial arbitration for disputes about terms and conditions of access for prescribed and negotiated transmission services	957
[Deleted]	957	
Part L	Annual Benchmarking Report	957
6A.31	Annual Benchmarking Report	957
Schedule 6A.1	Contents of Revenue Proposals	957
S6A.1.1	Information and matters relating to capital expenditure.....	957
S6A.1.2	Information and matters relating to operating expenditure	958
S6A.1.3	Additional information and matters.....	959
Schedule 6A.2	Regulatory Asset Base	962
S6A.2.1	Establishment of opening regulatory asset base for a regulatory control period.....	962
S6A.2.2	Prudence and efficiency of capital expenditure.....	966
S6A.2.2A	Reduction for inefficient past capital expenditure	967
S6A.2.2B	Depreciation.....	969
S6A.2.3	Removal of assets from regulatory asset base	969
S6A.2.4	Roll forward of regulatory asset base within the same regulatory control period.....	970
Schedule 6A.3	CRNP methodology and modified CRNP methodology.....	971
S6A.3.1	Meaning of optimised replacement cost	971
S6A.3.2	CRNP methodology	971
S6A.3.3	Modified CRNP methodology	972
Schedule 6A.4	Application of this Chapter to AEMO and declared transmission system operators.....	973
S6A.4.1	Application of this Chapter to AEMO etc	973
S6A.4.2	Exclusions, qualifications and modifications	973
6B.	Retail markets.....	983
Part A	Retail support.....	983
Division 1	Application and definitions	983
6B.A1.1	Application of this Part	983
6B.A1.2	Definitions	983
Division 2	Billing and payment rules	983
6B.A2.1	Obligation to pay	983
6B.A2.2	Direct customer billing and energy-only contracts	984
6B.A2.3	Calculating network charges.....	984
6B.A2.4	Statement of charges	984
6B.A2.5	Time and manner of payment	985
Division 3	Matters incidental to billing and payment	985
6B.A3.1	Adjustment of network charges	985
6B.A3.2	Tariff reassignment	985
6B.A3.3	Disputed statements of charges	986
6B.A3.4	Interest	987
6B.A3.5	Notification of changes to charges	987

Part B	Credit support required for late payment.....	988
Division 1	Application and definitions	988
6B.B1.1	Application of Part B	988
6B.B1.2	Definitions	988
Division 2	Requirements for credit support.....	988
6B.B2.1	Distribution Network Service Provider may require credit support in limited circumstances	988
Division 3	Provision of credit support by retailers	989
6B.B3.1	Retailer to provide credit support	989
6B.B3.2	Acceptable form of credit support	989
Division 4	Other Rules relating to credit support.....	990
6B.B4.1	Application of credit support	990
6B.B4.2	Return of credit support	990
6B.B4.3	Other retailer obligations	990
Schedule 6B.1	Prescribed form of unconditional undertaking for credit support.....	990
 7.	 Metering	 995
Part A	Introduction.....	995
7.1	Introduction to the Metering Chapter	995
7.1.1	Contents	995
Part B	Roles and Responsibilities.....	995
7.2	Role and Responsibility of financially responsible Market Participant	995
7.2.1	Obligations of financially responsible Market Participants to establish metering installations	995
7.2.2	[Not used]	996
7.2.3	Agreements with Local Network Service Provider	996
7.2.4	[Not used]	996
7.2.5	Agreements with Metering Provider	996
7.3	Role and Responsibility of Metering Coordinator	996
7.3.1	Responsibility of the Metering Coordinator	996
7.3.2	Role of the Metering Coordinator.....	997
7.4	Qualification and Registration of Metering Providers, Metering Data Providers and Embedded Network Managers.....	1000
7.4.1	Qualifications and registration of Metering Providers	1000
7.4.2	Qualifications and registration of Metering Data Providers	1001
7.4.2A	Qualifications and registration of Embedded Network Managers.....	1001
7.4.2B	List of Embedded Network Managers	1002
7.4.3	Nature of appointment of Metering Provider or Metering Data Provider.....	1002
7.4.4	Deregistration of Metering Providers, Metering Data Providers and Embedded Network Managers	1002
7.5	Role and Responsibility of AEMO	1004

7.5.1	Responsibility of AEMO for the collection, processing and delivery of metering data	1004
7.5.2	AEMO's costs in connection with metering installation	1005
7.5A	Role and Responsibility of Embedded Network Managers	1005
7.5A.1	Responsibility of Embedded Network Managers for management services	1005
7.5A.2	EN information	1005
Part C	Appointment of Metering Coordinator	1006
7.6	Appointment of Metering Coordinator	1006
7.6.1	Commercial nature of the Metering Coordinator appointment and service provision	1006
7.6.2	Persons who may appoint Metering Coordinators	1006
7.6.3	Appointment with respect to transmission network connection	1007
7.6.4	Type 7 metering installations	1007
7.7	Metering Coordinator default arrangements	1008
7.7.1	Obligations of financially responsible Market Participants on Metering Coordinator default event and end of contract term	1008
7.7.2	Notices to be provided by Metering Coordinator	1009
7.7.3	AEMO may issue breach notice	1009
Part D	Metering installation	1010
7.8	Metering installation arrangements	1010
7.8.1	Metering installation requirements	1010
7.8.2	Metering installation components	1011
7.8.3	Small customer metering installations	1015
7.8.4	Type 4A metering installation	1015
7.8.5	Emergency management	1018
7.8.6	Network devices	1018
7.8.7	Metering point	1021
7.8.8	Metering installation types and accuracy	1021
7.8.9	Meter churn	1022
7.8.10	Metering installation malfunctions	1022
7.8.10A	Timeframes for meters to be installed – new connection	1024
7.8.10B	Timeframes for meters to be installed – where a connection service is not required	1025
7.8.10C	Timeframes for meters to be installed – where a connection alteration is required	1026
7.8.11	Changes to metering equipment, parameters and settings within a metering installation	1027
7.8.12	Special site or technology related conditions	1028
7.8.13	Joint metering installations	1029
7.9	Inspection, Testing and Audit of Metering installations	1029
7.9.1	Responsibility for testing	1029
7.9.2	Actions in event of non-compliance	1031
7.9.3	Audits of information held in metering installations	1032
7.9.4	Errors found in metering tests, inspections or audits	1032
7.9.5	Retention of test records and documents	1033
7.9.6	Metering installation registration process	1034

Part E	Metering Data	1034
7.10	Metering Data Services	1034
7.10.1	Metering Data Services.....	1034
7.10.2	Data management and storage	1035
7.10.3	Provision of metering data to certain persons.....	1036
7.10.4	Use of check metering data.....	1036
7.10.5	Periodic energy metering.....	1037
7.10.6	Time settings.....	1038
7.10.7	Metering data performance standards.....	1038
7.11	Metering data and database	1039
7.11.1	Metering database	1039
7.11.2	Data validation, substitution and estimation.....	1040
7.11.3	Changes to energy data or to metering data.....	1041
7.12	Register of Metering Information	1041
7.12.1	Metering register.....	1041
7.12.2	Metering register discrepancy.....	1042
7.13	Disclosure of NMI information.....	1042
7.13.1	Application of this Rule.....	1042
7.13.2	NMI and NMI checksum	1042
7.13.3	NMI Standing Data.....	1042
7.14	Metering data provision to retail customers	1042
Part F	Security of metering installation and energy data.....	1043
7.15	Security of metering installation and energy data.....	1043
7.15.1	Confidentiality	1043
7.15.2	Security of metering installations	1044
7.15.3	Security controls for energy data.....	1045
7.15.4	Additional security controls for small customer metering installations	1046
7.15.5	Access to data	1047
Part G	Procedures	1049
7.16	Procedures	1049
7.16.1	Obligation to establish, maintain and publish procedures	1049
7.16.2	Market Settlement and Transfer Solution Procedures	1049
7.16.3	Requirements of the metrology procedure	1050
7.16.4	Jurisdictional metrology material in metrology procedure.....	1051
7.16.5	Additional metrology procedure matters	1052
7.16.6	Requirements of the service level procedures	1053
7.16.6A	Requirements of the ENM service level procedures	1054
7.16.6B	Guide to embedded networks	1055
7.16.7	Amendment of procedures in the Metering Chapter	1056
7.16.8	National Measurement Act	1057
Part H	B2B Requirements	1057
7.17	B2B Arrangements	1057
7.17.1	B2B e-Hub	1057
7.17.2	B2B e-Hub Participants	1058

7.17.3	Content of the B2B Procedures	1058
7.17.4	Changing B2B Procedures.....	1059
7.17.5	B2B Decision.....	1061
7.17.6	Establishment of Information Exchange Committee.....	1062
7.17.7	Functions and powers of Information Exchange Committee	1063
7.17.8	Obligations of Members	1064
7.17.9	Meetings of Information Exchange Committee	1065
7.17.10	Nomination, election and appointment of Members	1065
7.17.11	Qualifications of Members	1066
7.17.12	Information Exchange Committee Election Procedures and Information Exchange Committee Operating Manual.....	1067
7.17.13	Cost Recovery.....	1068
Schedule 7.1	Metering register	1068
S7.1.1	General.....	1068
S7.1.2	Metering register information.....	1068
Schedule 7.2	Metering Provider	1070
S7.2.1	General.....	1070
S7.2.2	Categories of registration.....	1070
S7.2.3	Capabilities of Metering Providers for metering installations types 1, 2, 3, 4 and 4A.....	1072
S7.2.4	Capabilities of Metering Providers for metering installations types 5 and 6.....	1074
S7.2.5	Capabilities of Metering Providers for small customer metering installations	1074
S7.2.6	Capabilities of the Accredited Service Provider category	1074
Schedule 7.3	Metering Data Provider	1075
S7.3.1	General.....	1075
S7.3.2	Categories of registration.....	1075
S7.3.3	Capabilities of Metering Data Providers	1075
S7.3.4	Capabilities of Metering Data Providers for small customer metering installations	1077
Schedule 7.4	Types and Accuracy of Metering installations.....	1077
S7.4.1	General requirements	1077
S7.4.2	Metering installations commissioned prior to 13 December 1998	1077
S7.4.3	Accuracy requirements for metering installations	1078
S7.4.4	Check metering	1084
S7.4.5	Resolution and accuracy of displayed or captured data.....	1084
S7.4.6	General design standards	1085
S7.4.6.1	Design requirements	1085
S7.4.6.2	Design guidelines.....	1086
Schedule 7.5	Requirements of minimum services specification.....	1086
S7.5.1	Minimum services specification	1086
Schedule 7.6	Inspection and Testing Requirements	1089
S7.6.1	General.....	1089
S7.6.2	Technical Guidelines	1091
Schedule 7.7	Embedded Network Managers	1092
S7.7.1	General.....	1092

S7.7.2	Capabilities of Embedded Network Managers	1092
8.	Administrative Functions	1097
Part A	Introductory	1097
8.1	Administrative functions.....	1097
8.1.1	[Deleted]	1097
8.1.2	[Deleted]	1097
8.1.3	Structure of this Chapter.....	1097
Part B	Disputes.....	1097
8.2	Dispute Resolution	1097
8.2.1	Application and guiding principles.....	1097
8.2.2	The Dispute Resolution Adviser.....	1100
8.2.3	Dispute management systems of Registered Participants and AEMO.....	1101
8.2.4	Stage 1 - dispute resolution through Registered Participants' DMS.....	1102
8.2.5	Stage 2 - dispute resolution process.....	1104
8.2.6A	Establishment of Dispute Resolution Panel.....	1104
8.2.6B	Parties to DRP Proceedings	1105
8.2.6C	Proceedings of the DRP	1106
8.2.6D	Decisions of the DRP.....	1107
8.2.6	[Deleted]	1107
8.2.7	Legal representation.....	1107
8.2.8	Cost of dispute resolution	1108
8.2.9	Effect of resolution	1108
8.2.10	Recording and publication.....	1109
8.2.11	Appeals on questions of law	1109
8.2.12	[Deleted]	1109
8.2A	B2B Determination Disputes	1109
8.2A.1	Application of rule 8.2	1109
8.2A.2	How rule 8.2 applies	1109
8.3	Power to make Electricity Procedures.....	1112
8.4	[Deleted]	1112
8.5	[Deleted]	1112
Part C	Registered Participants' confidentiality obligations.....	1112
8.6	Confidentiality.....	1112
8.6.1	Confidentiality	1112
8.6.1A	Application	1113
8.6.2	Exceptions.....	1113
8.6.3	Conditions.....	1115
8.6.4	[Deleted]	1115
8.6.5	Indemnity to AER, AEMC and AEMO	1115
8.6.6	AEMO information	1115
8.6.7	Information on Rules Bodies	1115
Part D	Monitoring and reporting	1116
8.7	Monitoring and Reporting	1116

8.7.1	Monitoring	1116
8.7.2	Reporting requirements and monitoring standards for Registered Participants and AEMO	1116
8.7.3	Consultation required for making general regulatory information order (Section 28H of the NEL)	1118
8.7.4	Preparation of network service provider performance report (Section 28V of the NEL).....	1119
8.7.5	[Deleted]	1120
8.7.6	Recovery of reporting costs	1120
Part E	Reliability panel	1120
8.8	Reliability Panel.....	1120
8.8.1	Purpose of Reliability Panel	1120
8.8.2	Constitution of the Reliability Panel.....	1122
8.8.3	Reliability Panel review process.....	1124
8.8.4	Determination of protected events.....	1126
Part F	Rules consultation procedures.....	1128
8.9	Rules Consultation Procedures	1128
Part G	Consumer advocacy funding	1130
8.10	Consumer advocacy funding obligation	1130
Part H	Augmentations	1130
8.11	Augmentations	1130
8.11.1	Application	1130
8.11.2	Object.....	1130
8.11.3	Definitions	1131
8.11.4	Planning criteria.....	1131
8.11.5	Construction of augmentation that is not a contestable augmentation.....	1132
8.11.6	Contestable augmentations	1132
8.11.7	Construction and operation of contestable augmentation.....	1133
8.11.8	Funded augmentations that are not subject to the tender process.....	1135
8.11.9	Contractual requirements and principles	1135
8.11.10	Annual planning review	1136
Schedule 8.11	Principles to be reflected in agreements relating to contestable augmentations	1136
S8.11.1	Risk allocation	1136
S8.11.2	Minimum requirements for agreements relating to contestable augmentation.....	1137
S8.11.3	Matters to be dealt with in relevant agreements	1138
Part I	Values of customer reliability	1138
8.12	Development of methodology and publication of values of customer reliability	1138
8A.	Participant Derogations.....	1143
Part 1	Derogations Granted to TransGrid	1143

8A.1	[Deleted]	1143
Part 2	Derogations Granted to EnergyAustralia	1143
8A.2	[Deleted]	1143
8A.2A	[Deleted]	1143
Part 3	[Deleted]	1143
Part 4	[Deleted]	1143
Part 5	[Deleted]	1143
Part 6	Derogations Granted to Victorian Market Participants	1143
Part 7	[Deleted]	1144
Part 8	[Deleted]	1144
Part 9	[Deleted]	1144
Part 10	[Deleted]	1144
Part 11	[Deleted]	1144
Part 12	[Deleted]	1144
Part 13	Derogation granted to Aurora Energy (Tamar Valley) Pty Ltd	1144
8A.13	[Deleted]	1144
Part 14	Derogations granted to Ausgrid, Endeavour Energy and Essential Energy.....	1144
8A.14	Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period	1144
8A.14.1	Definitions	1144
8A.14.2	Expiry date	1148
8A.14.3	Application of Rule 8A.14	1148
8A.14.4	Recovery of revenue across the current regulatory control period and subsequent regulatory control period	1149
8A.14.5	Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required.....	1150
8A.14.6	Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required.....	1151
8A.14.7	Requirements for adjustment determination.....	1152
8A.14.8	Application of Chapter 6 under participant derogation	1153
Part 15	Derogations granted to ActewAGL.....	1154
8A.15	Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period	1154
8A.15.1	Definitions	1154
8A.15.2	Expiry date	1158
8A.15.3	Application of Rule 8A.15	1158
8A.15.4	Recovery of revenue across the current regulatory control period and subsequent regulatory control period	1158
8A.15.5	Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required.....	1160

8A.15.6	Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required.....	1161
8A.15.7	Requirements for adjustment determination.....	1163
8A.15.8	Application of Chapter 6 under participant derogation	1163
9.	Jurisdictional Derogations and Transitional Arrangements	1169
9.1	Purpose and Application.....	1169
9.1.1	Purpose	1169
9.1.2	Jurisdictional Derogations	1169
Part A	Jurisdictional Derogations for Victoria	1169
9.2	[Deleted]	1169
9.3	Definitions.....	1169
9.3.1	General Definitions	1169
9.3.2	[Deleted]	1171
9.3A	Fault levels.....	1171
9.4	Transitional Arrangements for Chapter 2 - Registered Participants, Registration and Cross Border Networks	1172
9.4.1	[Deleted]	1172
9.4.2	Smelter Trader	1172
9.4.3	Smelter Trader: compliance.....	1172
9.4.4	Report from AER.....	1175
9.4.5	Cross Border Networks.....	1175
9.5	Transitional Arrangements for Chapter 3 – Reliability and Emergency Reserve Trader	1176
9.5.1	Definition	1176
9.5.2	Expiry date	1176
9.5.3	Multi-year Victorian contracts – term and volume.....	1176
9.5.4	Multi-year Victorian contracts - reporting.....	1176
9.6	Transitional Arrangements for Chapter 4 - System Security	1177
9.6.1	Operating Procedures (clause 4.10.1)	1177
9.6.2	Nomenclature Standards (clause 4.12)	1177
9.7	Transitional Arrangements for Chapter 5 - Network Connection.....	1178
9.7.1	[Deleted]	1178
9.7.2	[Deleted]	1178
9.7.3	[Deleted]	1178
9.7.4	Regulation of Distribution Network Connection.....	1178
9.7.5	[Deleted]	1179
9.7.6	[Deleted]	1179
9.7.7	[Deleted]	1179
9.8	Transitional Arrangements for Chapter 6 - Network Pricing.....	1179
9.8.1	[Deleted]	1179
9.8.2	[Deleted]	1179
9.8.3	[Deleted]	1179

9.8.4	Transmission Network Pricing	1179
9.8.4A	[Deleted]	1180
9.8.4B	[Deleted]	1180
9.8.4C	[Deleted]	1180
9.8.4D	[Deleted]	1180
9.8.4E	[Deleted]	1180
9.8.4F	[Deleted]	1180
9.8.4G	[Deleted]	1180
9.8.5	[Deleted]	1180
9.8.6	[Deleted]	1180
9.8.7	Distribution network pricing – transitional application of former Chapter 6.....	1180
9.8.8	Exclusion of AER's power to aggregate distribution systems and parts of distribution systems	1181
9.9	Transitional Arrangements for Chapter 7 - Metering	1182
9.9.1	Metering Installations To Which This Schedule Applies	1182
9.9.2	[Deleted]	1182
9.9.3	[Deleted]	1182
9.9.4	[Deleted]	1182
9.9.5	[Deleted]	1182
9.9.6	[Deleted]	1182
9.9.7	[Deleted]	1182
9.9.8	[Deleted]	1182
9.9.9	Periodic Energy Metering (clause 7.9.3)	1182
9.9.10	Use of Alternate Technologies (clause 7.13).....	1182
9.9A	[Deleted]	1183
9.9B	[Deleted]	1183
9.9C	[Deleted]	1183
1.	Interpretation of tables	1183
2.	Continuing effect	1183
3.	Subsequent agreement	1184
4.	[Deleted]	1184
5.	Reactive Power Capability (clause S5.2.5.1 of schedule 5.2)	1184
6.	[Deleted]	1185
7.	[Deleted]	1185
8.	[Deleted]	1185
9.	[Deleted]	1185
10.	[Deleted]	1185
11.	[Deleted]	1185
12.	[Deleted]	1185
13.	Governor Systems (load control) (clause S5.2.5.11 of schedule 5.2).....	1185
14.	[Deleted]	1185
15.	[Deleted]	1185
16.	Excitation Control System (clause S5.2.5.13 of schedule 5.2).....	1185
Part B	Jurisdictional Derogations for New South Wales	1186
9.10	[Deleted]	1186
9.11	Definitions.....	1186

9.11.1	Definitions used in this Part B	1186
9.12	Transitional Arrangements for Chapter 2 - Generators, Registered Participants, Registration and Cross Border Networks.....	1187
9.12.1	[Deleted]	1187
9.12.2	Customers	1187
9.12.3	Power Traders	1187
9.12.4	Cross Border Networks.....	1190
9.13	[Deleted].....	1191
9.14	Transitional Arrangements for Chapter 4 - System Security	1191
9.14.1	Power System Operating Procedures.....	1191
9.15	NSW contestable services for Chapter 5A.....	1191
9.15.1	Definitions	1191
9.15.2	Chapter 5A not to apply to certain contestable services.....	1191
9.16	Transitional Arrangements for Chapter 6 - Network Pricing.....	1191
9.16.1	NSW contestable services.....	1191
9.16.2	[Deleted]	1191
9.16.3	Jurisdictional Regulator	1191
9.16.4	Deemed Regulated Interconnector.....	1192
9.16.5	[Deleted]	1192
9.17	Transitional Arrangements for Chapter 7 - Metering	1192
9.17.1	Extent of Derogations	1192
9.17.2	Initial Registration (clause 7.1.2).....	1192
9.17.3	Amendments to Schedule 9G1	1192
9.17.4	Compliance with AS/NZ ISO 9002 (clause S7.4.3(f) of schedule 7.4)	1193
9.17A	[Deleted].....	1193
9.18	[Deleted].....	1193
Part C	Jurisdictional Derogations for the Australian Capital Territory.....	1193
9.19	[Deleted].....	1193
9.20	Definitions and Transitional Arrangements for Cross-Border Networks.....	1193
9.20.1	Definitions	1193
9.20.2	Cross Border Networks.....	1193
9.21	[Deleted].....	1194
9.22	[Deleted].....	1194
9.23	Transitional Arrangements for Chapter 6 - Network Pricing.....	1194
9.23.1	[Deleted]	1194
9.23.2	[Deleted]	1194
9.23.3	[Deleted]	1194
9.23.4	[Deleted]	1194
9.24	Transitional Arrangements.....	1194
9.24.1	Chapter 7 - Metering.....	1194
9.24.2	[Deleted]	1194

9.24A	[Deleted]	1194
Part D	Jurisdictional Derogations for South Australia	1194
9.25	Definitions.....	1194
9.25.1	[Deleted]	1194
9.25.2	Definitions	1194
9.26	Transitional Arrangements for Chapter 2 - Registered Participants, Registration And Cross Border Networks.....	1197
9.26.1	Registration as a Generator.....	1197
9.26.2	Registration as a Customer	1198
9.26.3	Cross Border Networks.....	1198
9.26.4	[Deleted]	1198
9.26.5	Registration as a Network Service Provider	1198
9.27	[Deleted]	1199
9.28	Transitional Arrangements for Chapter 5 - Network Connection.....	1199
9.28.1	Application of clause 5.2	1199
9.28.2	[Deleted]	1200
9.29	Transitional Arrangements for Chapter 6 - Economic Regulation of Distribution Services	1200
9.29.1	[Deleted]	1200
9.29.2	[Deleted]	1200
9.29.3	[Deleted]	1200
9.29.4	[Deleted]	1200
9.29.5	Distribution Network Pricing – South Australia	1200
9.29.6	Capital contributions, prepayments and financial guarantees	1201
9.29.7	Ring fencing.....	1201
9.29A	Monitoring and reporting	1201
9.30	Transitional Provisions	1202
9.30.1	Chapter 7 - Metering.....	1202
Part E	Jurisdictional Derogations for Queensland.....	1202
9.31	[Deleted]	1202
9.32	Definitions and Interpretation.....	1202
9.32.1	Definitions	1202
9.32.2	Interpretation.....	1205
9.33	Transitional Arrangements for Chapter 1	1205
9.33.1	[Deleted]	1205
9.34	Transitional Arrangements for Chapter 2 - Registered Participants and Registration	1205
9.34.1	Application of the Rules in Queensland (clauses 2.2 and 2.5)	1205
9.34.2	Stanwell Cross Border Leases (clause 2.2).....	1205
9.34.3	[Deleted]	1205
9.34.4	Registration as a Customer (clause 2.3.1)	1205
9.34.5	There is no clause 9.34.5	1206
9.34.6	Exempted generation agreements (clause 2.2)	1206

9.35	[Deleted]	1210
9.36	[Deleted]	1210
9.37	Transitional Arrangements for Chapter 5 - Network Connection.....	1210
9.37.1	[Deleted]	1210
9.37.2	Existing connection and access agreements (clause 5.2).....	1210
9.37.3	[Deleted]	1211
9.37.4	[Deleted]	1211
9.37.5	Forecasts for connection points to transmission network (clause 5.11.1).....	1211
9.37.6	There is no clause 9.37.6	1211
9.37.7	Cross Border Networks.....	1211
9.37.8	[Deleted]	1212
9.37.9	Credible contingency events (clause S5.1.2.1 of schedule 5.1).....	1212
9.37.10	Reactive power capability (clause S5.2.5.1 of schedule 5.2)	1212
9.37.11	[Deleted]	1213
9.37.12	Voltage fluctuations (clause S5.1.5 of schedule 5.1).....	1213
9.37.13	[Deleted]	1215
9.37.14	[Deleted]	1215
9.37.15	[Deleted]	1215
9.37.16	[Deleted]	1215
9.37.17	[Deleted]	1215
9.37.18	[Deleted]	1215
9.37.19	Generating unit response to disturbances (clause S5.2.5.3 of schedule 5.2)	1215
9.37.20	[Deleted]	1215
9.37.21	Excitation control system (clause S.5.2.5.13 of schedule 5.2)	1215
9.37.22	[Deleted]	1216
9.37.23	Annual forecast information for planning purposes (schedule 5.7).....	1216
9.38	Transitional Arrangements for Chapter 6 - Network Pricing.....	1216
9.38.1	[Deleted]	1216
9.38.2	[Deleted]	1216
9.38.3	[Deleted]	1216
9.38.4	Interconnectors between regions	1216
9.38.5	Transmission pricing for exempted generation agreements	1216
9.39	Transitional Arrangements for Chapter 7 - Metering	1217
9.39.1	Metering installations to which this clause applies	1217
9.39.2	[Deleted]	1218
9.39.3	[Deleted]	1218
9.39.4	[Deleted]	1218
9.39.5	[Deleted]	1218
9.40	Transitional Arrangements for Chapter 8 - Administration Functions	1218
9.40.1	[Deleted]	1218
9.40.2	[Deleted]	1218
9.40.3	[Deleted]	1218
9.41	[Deleted]	1218

Part F	Jurisdictional Derogations for Tasmania	1219
9.42	Definitions and interpretation	1219
9.42.1	Definitions	1219
9.42.2	Interpretation.....	1220
9.42.3	National grid, power system and related expressions.....	1220
9.43	[Deleted].....	1221
9.44	Transitional arrangements for Chapter 2 – Registered Participants and Registration - Customers (clause 2.3.1(e)).....	1221
9.45	Tasmanian Region (clause 3.5)	1221
9.47	Transitional arrangements for Chapter 5- Network Connection	1221
9.47.1	Existing Connection Agreements	1221
9.48	Transitional arrangements - Transmission and Distribution Pricing.....	1221
9.48.4A	Ring fencing.....	1221
9.48.4B	Uniformity of tariffs for small customers	1222
9.48.5	Transmission network.....	1222
9.48.6	Deemed regulated interconnector	1222
Part G	Schedules to Chapter 9	1222
1.	Introduction.....	1222
2.	[Deleted]	1222
3.	General Principle	1222
4.	[Deleted]	1223
5.	Accuracy Requirements.....	1223
6.	[Deleted]	1223
7.	[Deleted]	1223
8.	[Deleted]	1223
9.	[Deleted]	1223
10.	[Deleted]	1223
10.	Glossary.....	1227
11.	Savings and Transitional Rules.....	1345
Part A	Definitions.....	1345
Part B	System Restart Ancillary Services (2006 amendments)	1345
11.2	Rules consequent on making of the National Electricity Amendment (System Restart Ancillary Services and pricing under market suspension) Rule 2006	1345
11.2.1	Transitional provision for acquisition of non-market ancillary services	1345
11.3	[Deleted]	1346
Part C	Dispute Resolution for Regulatory Test (2006 amendments)	1346
11.4	Rules consequent on making of the National Electricity Amendment (Dispute Resolution for Regulatory Test) Rule 2006	1346

11.4.1	Continuation of things done under old clause 5.6.6	1346
Part D	Metrology (2006 amendments)	1347
11.5	Rules consequential on the making of the National Electricity Amendment (Metrology) Rule 2006.....	1347
11.5.1	Definitions	1347
11.5.2	Metrology procedures continues to apply until 31 December 2006	1347
11.5.3	Responsible person	1347
11.5.4	NEMMCO's responsibility to develop a metrology procedure	1347
11.5.5	Jurisdictional metrology material in the metrology procedure	1348
Part E	Economic Regulation of Transmission Services (2006 amendments)	1348
11.6	Rules consequent on making of the National Electricity Amendment (Economic Regulation of Transmission Services) Rule 2006	1348
11.6.1	Definitions	1348
11.6.2	New Chapter 6A does not affect existing revenue determinations.....	1349
11.6.3	Old Part C and Schedules 6.2, 6.3, 6.4, 6.7 and 6.8 of old Chapter 6	1350
11.6.4	Old Part F of Chapter 6.....	1350
11.6.5	Application of new Chapter 6A to Transmission Network Service Providers	1350
11.6.6	Application of Chapter 6 to old distribution matters	1350
11.6.7	References to the old Chapter 6	1350
11.6.8	References to provisions of the old Chapter 6	1351
11.6.9	Roll forward of regulatory asset base for first regulatory control period	1351
11.6.10	Other adjustment carry-over mechanisms from current to first regulatory control period	1351
11.6.11	Clause consequent upon making National Electricity Amendment (Cost Allocation Arrangements for Transmission Services) Rule No 2009 No 3 - Transition to new Chapter 6A: existing prescribed connection services	1351
11.6.12	Powerlink transitional provisions	1354
11.6.13	ElectraNet easements transitional provisions	1357
11.6.14	TransGrid contingent projects	1357
11.6.15	Transmission determination includes existing revenue determinations.....	1358
11.6.16	References to regulatory control period.....	1358
11.6.17	Consultation procedure for first proposed guidelines.....	1358
11.6.18	Reliance on proposed guidelines for SP AusNet, VENCorp and ElectraNet	1359
11.6.19	EnergyAustralia transitional provisions	1359
11.6.20	Basslink transitional provisions	1361
11.6.21	SPI Powernet savings and transitional provision.....	1363
11.6.22	Interim arrangements pricing-related information.....	1364
Part F	Reform of Regulatory Test Principles (2006 amendments).....	1365
11.7	Rules consequent on making of the National Electricity Amendment (Reform of the Regulatory Test Principles) Rule 2006	1365

11.7.1	Definitions	1365
11.7.2	Amending Rule does not affect old clause 5.6.5A	1365
Part G	Pricing of Prescribed Transmission Services (2006 amendments)	1365
11.8	Rules consequent on making the National Electricity Amendment (Pricing of Prescribed Transmission Services) Rule 2006	1365
11.8.1	Definitions	1365
11.8.2	Regulated interconnectors	1366
11.8.3	Application of new Part J of Chapter 6A to Transmission Network Service Providers	1366
11.8.4	Reliance on agreed interim guideline for ElectraNet, SPAusNet, and VenCorp	1367
11.8.5	Prudent discounts under existing agreements	1367
11.8.6	Application of prudent discounts regime under rule 6A.26	1367
11.8.7	Prudent discounts pending approval of pricing methodology	1367
Part H	Reallocations (2007 amendments)	1368
11.9	Rules consequent on the making of the National Electricity Amendment (Reallocation) Rule 2007	1368
11.9.1	Definitions	1368
11.9.2	Existing and transitional reallocations	1368
Part I	Technical Standards for Wind Generation (2007 amendments)	1369
11.10	Rules consequent on making of the National Electricity Amendment (Technical Standards for Wind Generation and other Generator Connections) Rule 2007	1369
11.10.1	Definitions	1369
11.10.2	Provision of information under S5.2.4 in registration application	1369
11.10.3	Access standards made under the old Chapter 5	1370
11.10.4	Modifications to plant by Generators	1370
11.10.5	Technical Details to Support Application for Connection and Connection Agreement	1370
11.10.6	Transitional arrangements for establishment of performance standards	1370
11.10.7	Jurisdictional Derogations for Queensland	1370
11.10A	Rules consequent on the making of the National Electricity Amendment (Central Dispatch and Integration of Wind and Other Intermittent Generation) Rule 2008	1371
11.10A.1	Definitions	1371
11.10A.2	Registration and reclassification of classified generating units	1372
11.10A.3	Registered generating unit	1372
11.10A.4	Classification of potential semi-scheduled generating unit	1372
11.10A.5	Participant fees	1373
11.10A.6	Timetable	1373
11.10A.7	Procedure for contribution factors for ancillary service transactions	1373
11.10A.8	Guidelines for energy conversion model information	1373
Part J	Cost Recovery of Localised Regulation Services (2007 amendments)	1374

11.11	Rules consequent on making of the National Electricity Amendment (Cost Recovery of Localised Regulation Services) Rule 2007	1374
11.11.1	Definitions	1374
11.11.2	Action taken by NEMMCO for the purposes of Amending Rule	1374
11.12	[Deleted]	1374
Part L	[Deleted]	1374
Part M	Economic Regulation of Distribution Services (2007 amendments)	1374
Division 1	General Provisions	1374
11.14	General provisions	1374
11.14.1	Application of this Division.....	1374
11.14.2	Definitions	1374
11.14.3	Preservation of old regulatory regime	1375
11.14.4	Transfer of regulatory responsibility	1376
11.14.5	Special requirements with regard to ring fencing.....	1376
11.14.6	Additional requirements with regard to cost allocation.....	1377
11.14.7	Construction of documents	1377
Division 2	[Deleted]	1378
Division 3	Transitional arrangements for first distribution determination for Queensland Distribution Network Service Providers	1378
11.16	Transitional arrangements for first distribution determination for Queensland Distribution Network Service Providers	1378
11.16.1	Definitions	1378
11.16.2	Application of Part to Queensland 2010 distribution determinations	1378
11.16.3	Treatment of the regulatory asset base	1378
11.16.4	Efficiency Benefit Sharing Scheme.....	1379
11.16.5	Service Target Performance Incentive Scheme	1379
11.16.6	Framework and approach	1379
11.16.7	Regulatory Proposal.....	1379
11.16.8	Side constraints	1380
11.16.9	Cost pass throughs	1380
11.16.10	Capital Contributions Policy	1380
Division 4	Transitional provisions of specific application to Victoria	1381
11.17	Transitional provisions of specific application to Victoria	1381
11.17.1	Definitions	1381
11.17.2	Calculation of estimated cost of corporate income tax	1381
11.17.3	Decisions made in the absence of a statement of regulatory intent	1381
11.17.4	Cost allocation guidelines	1382
11.17.5	Modification of requirements related to cost allocation method	1382
11.17.6	AMI Order in Council	1383
Part N	Registration of Foreign Based Persons and Corporations as Trader Class Participants (2007 amendments).....	1383

11.18	Rules consequential on the making of the National Electricity Amendment (Registration of Foreign Based Persons and Corporations as Trader Class Participants) Rule 2007	1383
11.18.1	Definitions	1383
11.18.2	Auction rules.....	1383
Part O	Process for Region Change (2007 amendments).....	1384
11.19	Rules consequent on making of the National Electricity Amendment (Process for Region Change) Rule 2007	1384
11.19.1	Definitions	1384
11.19.2	Regions Publication.....	1384
Part P	Integration of NEM Metrology Requirements.....	1384
11.20	Rules consequential on the making of the National Electricity Amendment (Integration of NEM Metrology Requirements) Rule 2008	1384
11.20.1	Definitions	1384
11.20.2	Metering installations for non-market generating units immediately prior to 30 June 2008	1384
11.20.3	First-tier load metering installations	1385
11.20.4	First-tier load metering installations in Victoria.....	1385
11.20.5	Minimalist Transitioning Approach in Queensland	1385
11.20.6	First-tier jurisdictional requirements publication	1386
11.20.7	Metrology procedure	1386
Part PA	Reliability Settings: Information Safety Net and Directions	1386
11.21	Rules consequential on the making of the National Electricity Amendment (NEM Reliability Settings: Information Safety Net and Directions) Rule 2008	1386
11.21.1	Definitions	1386
11.21.2	EAAP guidelines	1386
11.21.3	[Deleted]	1386
11.21.4	[Deleted]	1386
11.21.5	Timetable	1386
11.21.6	Power system security and reliability standards.....	1387
11.21.7	Report on statement of opportunities.....	1387
11.21.8	Methodology for dispatch prices and ancillary services prices	1387
Part Q	Regulatory Test Thresholds and Information Disclosure on Network Replacements.....	1387
11.22	Rules consequential on the making of the National Electricity Amendment (Regulatory Test Thresholds and Information Disclosure on Network Replacements) Rule 2008	1387
11.22.1	Definitions	1387
11.22.2	Amending Rule does not affect existing regulatory test.....	1388
Part R	Performance Standard Compliance of Generators	1388
11.23	Rules consequential on the making of the National Electricity Amendment (Performance Standards Compliance of Generators) Rule 2008.....	1388
11.23.1	Definitions	1388

11.23.2	Application of rule 11.23 for compliance programs implemented immediately after the commencement of the Amending Rule	1388
11.23.3	Application of rule 11.23 for compliance programs implemented immediately prior to the commencement of the Amending Rule.....	1388
11.23.4	Application of rule 11.23 for compliance programs not implemented immediately prior to the commencement of the Amending Rule.....	1389
Part S	[Deleted].....	1389
Part U	Confidentiality Arrangements concerning Information required for Power System Studies.....	1389
11.25	Rule consequential on the making of the National Electricity Amendment (Confidentiality Arrangements in Respect of Information Required for Power System Studies) Rule 2009	1389
11.25.1	Definitions	1389
11.25.2	Transitional arrangements for the provision of information.....	1389
Part V	WACC Reviews: Extension of Time	1391
11.26	Rule consequential on the making of the National Electricity Amendment (WACC Reviews: Extension of Time) Rule 2009	1391
11.26.1	Definitions	1391
11.26.2	Extension of time to submit a regulatory proposal for the regulatory control period 2010-2015	1391
Part W	National Transmission Statement	1391
11.27	Rules consequent on the making of the National Electricity Amendment (National Transmission Statement) Rule 2009	1391
11.27.1	Definitions	1391
11.27.2	Purpose	1391
11.27.3	Application of rule 11.27	1392
11.27.4	National Transmission Statement	1392
11.27.5	Scope and Content of National Transmission Network Development Plan.....	1393
11.27.6	Energy Adequacy Assessment Projection	1394
11.27.7	Amendment to Last Resort Power	1394
11.27.8	Actions taken prior to commencement of Rule	1394
Part X	National Transmission Planning	1394
11.28	Rules consequential on the making of the National Electricity (Australian Energy Market Operator) Amendment Rules 2009	1394
11.28.1	Definitions	1394
11.28.2	Jurisdictional planning bodies and representatives.....	1394
11.28.3	Criteria and guidelines published by Inter-regional Planning Committee.....	1395
11.28.4	Augmentation technical reports	1395
11.28.5	Last Resort Planning Power.....	1395
11.28.6	Inter-network power system tests	1395
11.28.7	Control and protection settings for equipment	1396
11.28.8	Revenue Proposals.....	1396
Part Y	Regulatory Investment Test for Transmission.....	1396

11.29	Rules consequent on making of the National Electricity Amendment (Regulatory Investment Test for Transmission) Rule 2009	1396
11.29.1	Definitions	1396
11.29.2	Period when Amending Rule applies to transmission investment.....	1397
Part Z	Congestion Information Resource.....	1397
11.30	Rules consequent on the making of the National Electricity Amendment (Congestion Information Resource) Rule 2009.....	1397
11.30.1	Definitions	1397
11.30.2	Interim congestion Information resource.....	1398
Part ZA	Reliability and emergency reserve trader (2009 amendments).....	1400
11.31	Rules consequent on the making of the National Electricity Amendment (Improved RERT Flexibility and Short-notice Reserve Contracts) Rule 2009.....	1400
11.31.1	Definitions	1400
11.31.2	Purpose	1400
11.31.3	Amendments to Reliability Panel's RERT Guidelines	1400
11.31.4	Amendments to AEMO's RERT procedures for exercising the RERT	1401
Part ZB	Early Application of Market Impact Parameters.....	1401
11.32	Rules consequent on the making of the National Electricity Amendment (Early Implementation of Market Impact Parameters) Rule 2010	1401
11.32.1	Definitions	1401
11.32.2	Purpose	1402
11.32.3	Early application of the market impact component of the service target performance incentive scheme	1402
Part ZC	Transparency of operating data	1405
11.33	Rules consequential on the making of National Electricity Amendment (Transparency of Operating Data) Rule 2010	1405
11.33.1	Definitions	1405
11.33.2	Spot market operations timetable	1405
Part ZD	Cost Recovery for Other Services Directions.....	1407
11.34	Rules consequent on making of the National Electricity Amendment (Cost Recovery for Other Services Directions) Rule 2010	1407
11.34.1	Definitions	1407
11.34.2	Period when Amending Rules applies to funding of compensation.....	1407
Part ZE	Payments under Feed-in Schemes and Climate Change Funds	1407
11.35	Rules consequential on the making of the National Electricity Amendment (Payments under Feed-in Schemes and Climate Change Funds) Rule 2010	1407
11.35.1	Definitions	1407
11.35.2	Application of recovery of jurisdictional scheme Rules.....	1408
11.35.3	Reporting on jurisdictional schemes.....	1409

11.35.4	Revocation and substitution of distribution determination for jurisdictional scheme recovery	1410
Part ZF	Transitional Arrangements for Ministerial Smart Meter Roll Out Determinations	1411
11.36	Ministerial Smart Meter Roll Out Determinations	1411
11.36.1	Definitions	1411
11.36.2	Meaning of relevant metering installation	1411
11.36.3	Period of application of rule to relevant metering installation	1411
11.36.4	Designation of responsible person.....	1412
11.36.5	[Deleted]	1412
11.36.6	[Deleted]	1412
Part ZG	Provision of Metering Data Services and Clarification of Existing Metrology Requirements.....	1412
11.37	Rules consequential on the making of the National Electricity Amendment (Provision of Metering Data Services and Clarification of Existing Metrology Requirements) Rule 2010	1412
11.37.1	Definitions	1412
11.37.2	Commencement of special site or technology related conditions.....	1412
11.37.3	Initial service level procedures	1412
Part ZH	Spot Market Operations Timetable	1413
11.38	Rules consequential on the making of National Electricity Amendment (Amendments to PASA-related Rules) Rule 2010	1413
11.38.1	Definitions	1413
11.38.2	Spot market operations timetable	1413
Part ZI	DNSP Recovery of Transmission-related Charges	1414
11.39	Rules consequential on the making of the National Electricity Amendment (DNSP Recovery of Transmission-related Charges) Rule 2011.....	1414
11.39.1	Definitions	1414
11.39.2	Recovery by Victorian distribution network service providers during current regulatory control period.....	1415
11.39.3	Recovery by Victorian distribution network service providers for shared network augmentations	1415
11.39.4	Bairnsdale network support agreement	1415
11.39.5	Approval of pricing proposal	1415
11.39.6	Ergon Energy transitional charges	1416
11.39.7	Energex transitional charges	1416
Part ZJ	Network Support and Control Ancillary Services.....	1416
11.40	Rules consequential on the making of the National Electricity Amendment (Network Support and Control Ancillary Services) Rule 2011	1416
11.40.1	Definitions	1416
11.40.2	Purpose	1416
11.40.3	Existing NCAS contracts to continue	1416
11.40.4	Amendments to existing guidelines.....	1417
11.40.5	New procedures	1417

11.40.6	Decisions and actions taken prior to Amending Rule	1417
Part ZK	Application of Dual Marginal Loss Factors	1417
11.41	Rules consequential on the making of the National Electricity Amendment (Application of Dual Marginal Loss Factors) Rule 2011	1417
11.41.1	Definitions	1417
11.41.2	Amendments to loss factor methodology	1418
11.41.3	Procedure applying dual intra-regional loss factors in central dispatch and spot market transactions	1418
11.41.4	Publication of intra-regional loss factors	1418
Part ZL	Tasmania Tranche 5a Procedure Changes.....	1418
11.42	Rules consequential on the making of the National Electricity Amendment (Tasmania Tranche 5a Procedure Changes) Rule 2011	1418
11.42.1	Definitions	1418
11.42.2	AEMO may amend Relevant Procedures	1419
Part ZM	Application and Operation of Administered Price Periods.....	1419
11.43	Rules consequential on the making of National Electricity Amendment (Application and Operation of Administered Price Periods) Rule 2011	1419
11.43.1	Definitions	1419
11.43.2	Administered Price Cap Schedule	1419
Part ZO	Negative Intra-regional Settlements Residue.....	1420
11.45	Rules consequential on the making of National Electricity Amendment (Negative Intra-regional Settlements Residue) Rule 2012	1420
11.45.1	Definitions	1420
11.45.2	Recovery of negative settlements residue prior to consultation under the Amending Rule	1420
11.45.3	First consultation on negative intra-regional settlements residue procedure	1421
Part ZP	Interim Connection Charging Rules.....	1421
11.46	Rules consequential to the insertion of Chapter 5A by the National Electricity (National Energy Retail Law) Amendment Rule 2012	1421
Division 1	Preliminary.....	1421
11.46.1	Definitions	1421
11.46.2	Extended meaning of some terms	1423
11.46.3	Transitional operation of relevant provisions	1423
Division 2	Jurisdictional differences	1424
11.46.4	Exclusions, qualifications and modifications for ACT	1424
11.46.5	Exclusions, qualifications and modifications for NSW	1425
11.46.6	Exclusions, qualifications and modifications for Queensland	1426
11.46.7	Exclusions, qualifications and modifications for SA	1427
11.46.8	Exclusions, qualifications and modifications for Tasmania	1428

11.46.9	Exclusions, qualifications and modifications for Victoria.....	1429
Division 3	General provisions	1430
11.46.10	Connection charges.....	1430
11.46.11	References.....	1431
Part ZQ	NSW transitional retail support and credit support rules.....	1431
11.47	Rules consequential on the insertion of Chapter 6B by the National Electricity (National Energy Retail Law) Amendment Rule 2012	1431
Division 1	Preliminary.....	1431
11.47.1	Definitions	1431
11.47.2	Application	1433
11.47.3	Obligation to pay	1433
11.47.4	Charging and billing	1433
11.47.5	Interest on unpaid amounts.....	1434
11.47.6	Circumstances where NSW DNSP may request credit support	1434
11.47.7	Credit support	1434
11.47.8	Credit support providers	1435
11.47.9	NSW DNSP to determine required credit support amount.....	1435
11.47.10	NSW Retailer to ensure credit support available.....	1435
11.47.11	Drawing on credit support	1436
11.47.12	Specific transitional arrangements.....	1436
Part ZR	Miscellaneous transitional rules—NERL	1436
11.48	Rules consequential on the making of the National Electricity (National Energy Retail Law) Amendment Rule 2012.....	1436
11.48.1	Extension of time period for AER to consider certain pass through applications	1436
Part ZS	Cost pass through arrangements for Network Service Providers.....	1437
11.49	Rules consequential on the making of National Electricity Amendment (Cost pass through arrangements for Network Service Providers) Rule 2012	1437
11.49.1	Definitions	1437
11.49.2	Terrorism event is a cost pass through event in the current regulatory control period	1437
11.49.3	Transitional arrangement for Powerlink	1437
11.49.4	Transitional arrangements for ElectraNet and Murraylink	1438
Part ZT	Distribution Network Planning and Expansion.....	1438
11.50	Rules consequential on the making of the National Electricity Amendment (Distribution Network Planning and Expansion) Rule 2012	1438
11.50.1	Interpretation.....	1438
11.50.2	Definitions	1438
11.50.3	Timing for first Distribution Annual Planning Report	1439
11.50.4	Contents of Distribution Annual Planning Report.....	1439
11.50.5	Transition from the regulatory test to the regulatory investment test for distribution	1440

Part ZU	New Prudential Standard and Framework in the NEM	1441
11.51	Rules consequential on the making of the National Electricity Amendment (New Prudential Standard and Framework in the NEM) Rule 2012.....	1441
11.51.1	Definitions	1441
11.51.2	AEMO's responsibility to develop and publish the credit limit procedures.....	1441
11.51.3	Transition to the framework for determining prudential settings	1442
11.51.4	Prior consultation, step, decision or action taken by AEMO	1442
Part ZV	Small Generation Aggregator Framework	1442
11.52	Rules consequential on the making of the National Electricity Amendment (Small Generation Aggregator Framework) Rule 2012	1442
11.52.1	Definitions	1442
11.52.2	Commencement of participant fees as well as transactions, funding and settlements under Chapter 3 for Market Small Generation Aggregators.....	1443
11.52.3	Participant fees for Market Small Generation Aggregators.....	1443
11.52.4	Ancillary service transactions, funding of compensation for directions and intervention settlements for directions for Market Small Generation Aggregators	1443
11.52.5	Amendments to the carbon dioxide equivalent intensity index procedures.....	1444
11.52.6	Amendments of the metrology procedures	1445
11.52.7	Amendments to the Market Settlement and Transfer Solution Procedures.....	1445
Part ZW	Economic Regulation of Network Service Providers (2012 amendments)	1445
Division 1	Miscellaneous transitional provisions	1445
11.53	Publication of Chapter 6 Guidelines	1445
11.53.1	Shared Asset Guidelines	1445
11.53.2	Capital Expenditure Incentive Guidelines	1446
11.53.3	Rate of Return Guidelines	1446
11.53.4	Expenditure Forecast Assessment Guidelines	1446
11.53.5	Distribution Confidentiality Guidelines	1446
11.53.6	Consultation procedure paper	1447
11.54	Publication of Chapter 6A Guidelines	1447
11.54.1	Shared Asset Guidelines	1447
11.54.2	Capital Expenditure Incentive Guidelines	1447
11.54.3	Rate of Return Guidelines	1447
11.54.4	Expenditure Forecast Assessment Guidelines	1448
11.54.5	Transmission Confidentiality Guidelines	1448
11.54.6	Consultation paper procedure	1448
Division 2	Transitional provisions for NSW/ACT Distribution Network Service Providers	1448
11.55	General provisions	1448

11.55.1	Definitions	1448
11.55.2	Transitional Chapter 6	1449
11.55.3	Application of rule 11.56	1451
11.56	Special provisions applying to affected DNSPs.....	1451
11.56.1	Requirement to make distribution determination	1451
11.56.2	Transitional regulatory proposal	1451
11.56.3	Distribution determination for a transitional regulatory control period	1452
11.56.4	Subsequent regulatory control period	1457
11.56.5	Review of past capital expenditure	1462
Division 3	Transitional provisions for NSW and Tasmanian Transmission Network Service Providers and Directlink.....	1462
11.57	General provisions	1462
11.57.1	Definitions	1462
11.57.2	Transitional Chapter 6A	1463
11.57.3	Application of rule 11.58	1464
11.58	Special provisions applying to affected TNSPs	1465
11.58.1	Requirement to make transmission determination	1465
11.58.2	Requirement to submit a transitional Revenue Proposal	1465
11.58.3	Transmission determination for a transitional regulatory control period	1466
11.58.4	Subsequent regulatory control period	1468
11.58.5	Review of past capital expenditure	1473
Division 4	Transitional provisions for the Victorian TNSP	1473
11.59	Special provisions applying to the Victorian TNSP.....	1473
11.59.1	Definitions	1473
11.59.2	Application of rule 11.59	1474
11.59.3	Former Chapter 6A/10 applies.....	1474
11.59.4	Review of past capital expenditure	1474
Division 5	Transitional provisions for Qld/SA and Victorian Distribution Network Service Providers	1475
11.60	Special provisions applying to the Qld/SA and Victorian Distribution Network Service Providers	1475
11.60.1	Definitions	1475
11.60.2	Application of rule 11.60	1476
11.60.3	Distribution determination for next regulatory control period	1476
11.60.4	Re-opening of distribution determination for next regulatory control period	1478
11.60.5	Review of past capital expenditure	1480
Division 6	Review of past capital expenditure	1480
11.61	Definitions and application	1480
11.62	Review of past capital expenditure under Chapter 6	1481
11.63	Review of past capital expenditure under Chapter 6A	1481
Part ZX	Inter-regional Transmission Charging	1482

11.64	Rules consequent on the making of the National Electricity Amendment (Inter-regional Transmission Charging) Rule 2013	1482
11.64.1	Definitions	1482
11.64.2	Amendments to the pricing methodology guidelines	1482
11.64.3	Amendments to the pricing methodologies of Transmission Network Service Providers	1482
11.64.4	Commencement of clause 6A.23.3(f) for further adjustments	1483
Part ZY	Network Service Provider Expenditure Objectives.....	1483
11.65	Rules consequent on the making of the National Electricity Amendment (Network Service Provider Expenditure Objectives) Rule 2013	1483
11.65.1	Definitions	1483
11.65.2	Application of rule 11.65	1483
Part ZZ	Access to NMI Standing Data	1484
11.66	Rules consequent on the making of the National Electricity Amendment (Access to NMI Standing Data) Rule 2013	1484
11.66.1	Definitions	1484
11.66.2	Minor amendment of the Market Settlement and Transfer Solution Procedures.....	1484
Part ZZA	Publication of Zone Substation Data	1485
11.67	Rules consequent on the making of the National Electricity Amendment (Publication of Zone Substation Data) Rule 2014.....	1485
11.67.1	Definitions	1485
11.67.2	Distribution Network Service Providers' obligations to commence on the next DAPR date	1485
Part ZZB	Connecting Embedded Generators	1485
11.68	Rules consequential on the making of the National Electricity Amendment (Connecting embedded generators) Rule 2014	1485
11.68.1	Definitions	1485
11.68.2	Continuation of enquiries lodged.....	1485
Part ZZC	Customer access to information about their energy consumption	1486
11.69	Rules consequential on the making of the National Electricity Amendment (Customer access to information about their energy consumption) Rule 2014	1486
11.69.1	Definitions	1486
11.69.2	AEMO to develop and publish the metering data provision procedure	1486
Part ZZD	National Electricity Amendment (Distribution Network Pricing Arrangements) Rule 2014	1486
Division 1	Miscellaneous transitional provisions	1486
11.70	General provisions	1486
11.70.1	Definitions	1486
11.70.2	Application of Part ZZB	1487

11.71	Special provisions applying to SA TNSP	1487
Division 2	Transitional provisions for NSW/ACT and Qld/SA Distribution Network Service Providers	1488
11.72	General provisions	1488
11.72.1	Definitions	1488
11.73	Special provisions applying to affected DNSPs.....	1488
11.73.1	Distribution determination and pricing proposals	1488
11.73.2	Tariff structure statement.....	1489
11.73.3	Dispute resolution.....	1495
Division 3	Transitional provisions for Tasmanian Distribution Network Service Provider.....	1495
11.74	Application of former Chapter 6.....	1495
Division 4	Transitional provisions for Victorian Distribution Network Service Providers	1495
11.75	General provisions	1495
11.75.1	Definitions	1495
11.76	Special provisions applying to affected DNSPs.....	1495
11.76.1	Distribution determination and pricing proposals	1495
11.76.2	Tariff structure statement.....	1496
11.76.3	Dispute resolution.....	1502
Part ZZE	Early Application of Network Capability Component (STPIS).....	1502
11.77	Rules consequent on the making of the National Electricity Amendment (Early Application of Service Target Performance Incentive Scheme (STPIS) Components for Transmission Businesses) Rule 2015	1502
11.77.1	Definitions	1502
11.77.2	Purpose	1502
11.77.3	Earlier application of the network capability component of the service target performance incentive scheme	1503
Part ZZF	National Electricity Amendment (Governance arrangements and implementation of the reliability standard and settings) Rule 2015	1505
11.78	Rules consequent on the making of the National Electricity Amendment (Governance arrangements and implementation of the reliability standards and settings) Rule 2015.....	1505
11.78.1	Definitions	1505
11.78.2	Existing power system security and reliability standards.....	1505
11.78.3	Reliability standard and settings guidelines	1506
11.78.4	Reliability standard implementation guidelines	1506
Part ZZG	Improving demand side participation information provided to AEMO by registered participants	1508
11.79	Rules consequential on making of the National Electricity Amendment (Improving demand side participation	

	information provided to AEMO by registered participants)	
11.79.1	Rule 2015	1508
	AEMO to develop and publish the demand side participation information guidelines	1508
Part ZZH	Transitional Arrangements for Aligning TasNetworks' regulatory control periods	1509
11.80	National Electricity Amendment (Aligning TasNetworks' regulatory control periods) Rule 2015	1509
11.80.1	Definitions	1509
11.80.2	Application of rule 11.80	1509
11.80.3	Next regulatory control period.....	1509
11.80.4	Subsequent regulatory control period.....	1509
Part ZZY	System Restart Ancillary Services	1510
11.81	Rules consequential on the making of the National Electricity Amendment (System Restart Ancillary Services) Rule 2015.....	1510
11.81.1	Definitions	1510
11.81.2	System restart standard	1510
11.81.3	SRAS Guideline.....	1510
11.81.4	Regional Benefit Ancillary Services Procedures.....	1510
11.81.5	Consultation prior to the Commencement Date	1510
11.81.6	Existing SRAS Contract	1510
Part ZZJ	Demand management incentive scheme	1511
11.82	Rules consequential on making of the National Electricity Amendment (Demand management incentive scheme) Rule 2015	1511
11.82.1	Definitions	1511
11.82.2	AER to develop and publish the demand management incentive scheme and demand management innovation allowance mechanism.....	1511
Part ZZK	AEMO access to demand forecasting information	1511
11.83	Rules consequential on the making of the National Electricity Amendment (AEMO access to demand forecasting information) Rule 2015.....	1511
11.83.1	AEMO to include supporting information in NTNDP database	1511
Part ZZL	Compensation arrangements following application of an Administered Price Cap or Administered Floor Price.....	1512
11.84	Rules consequential on the making of the National Electricity Amendment (Compensation Arrangements following application of an Administered Price Cap and Administered Floor Price) Rule 2016.....	1512
11.84.1	Definitions	1512
11.84.2	Compensation Guidelines	1512
Part ZZM	Common definitions of distribution reliability measures	1512
11.85	Rules consequential on the making of the National Electricity Amendment (Common definitions of distribution reliability measures) Rule 2015	1512

11.85.1	Definitions	1512
11.85.2	Distribution reliability measures guidelines	1512
11.85.3	Amended STPIS	1512
Part ZZN	Expanding competition in metering and metering related services	1513
11.86	Rules consequent on making of the National Electricity Amendment (Expanding competition in metering and related services) Rule 2015.....	1513
11.86.1	Definitions	1513
11.86.2	References to old Chapter 7	1513
11.86.3	References to provisions of the old Chapter 7	1513
11.86.4	References to responsible person.....	1513
11.86.5	Continued operation of old Rules until the effective date	1513
11.86.6	New and amended procedures	1514
11.86.7	Metering Coordinator for type 5 or 6 metering installation from effective date.....	1515
11.86.8	Distribution Ring Fencing Guidelines	1517
11.86.9	[Deleted]	1517
Part ZZO	Embedded Networks	1517
11.87	Rules consequential on the making of the National Electricity Amendment (Embedded Networks) Rule 2015.....	1517
11.87.1	Definitions	1517
11.87.2	Amended Procedures and NMI Standing Data Schedule	1518
11.87.3	ENM service level procedures and guide to embedded networks and list of Embedded Network Managers	1518
11.87.4	Exemptions under section 13 of the National Electricity Law	1518
Part ZZP	Meter Replacement Processes.....	1519
11.88	Rules consequential on the making of the National Electricity Amendment (Meter Replacement Processes) Rule 2016.....	1519
11.88.1	Definitions	1519
11.88.2	Amended Procedures	1519
Part ZZQ	Energy Adequacy Assessment Projection	1519
11.89	Rules consequential to the National Electricity Amendment (Energy Adequacy Assessment Projection timeframes) Rule 2016	1519
11.89.1	Amended guideline and timetable	1519
Part ZZR	Reliability and emergency reserve trader (2016 amendments).....	1520
11.90	Rules consequent on the making of the National Electricity Amendment (Extension of the Reliability and Emergency Reserve Trader) Rule 2016	1520
11.90.1	Definitions	1520
11.90.2	Amendments to Reliability Panel's RERT Guidelines	1520
11.90.3	Amendments to AEMO's RERT procedures	1520
11.90.4	Reserve contracts entered into before Schedule 2 commencement date.....	1520

Part ZZS	Updating the electricity B2B framework.....	1520
11.91	Rules consequential on the making of the National Electricity Amendment (Updating the electricity B2B framework) rule 2016	1520
11.91.1	Definitions	1520
11.91.2	B2B Procedures	1521
11.91.3	Information Exchange Committee Election Procedures and Information Exchange Committee Operating Manual.....	1521
11.91.4	The New IEC	1522
11.91.5	Amended Procedures	1523
11.91.6	B2B e-Hub Participant accreditation process	1524
11.91.7	New IEC Budget and 2016 Annual Report	1524
11.91.8	Cost recovery	1524
Part ZZT	Application of Offsets in the Prudential Margin Calculation	1525
11.92	Rules consequential on the making of the National Electricity Amendment (Application of Offsets in the Prudential Margin Calculation) Rule 2016	1525
11.92.1	Definitions	1525
11.92.2	Amended procedures	1525
Part ZTU	Rate of Return Guidelines Review	1525
11.93	Rules consequential on the making of the National Electricity Amendment (Rate of Return Guidelines Review) Rule 2016	1525
11.93.1	Definitions	1525
11.93.2	Application of current rate of return guidelines to making of a distribution determination for the subsequent regulatory control period	1527
Part ZZV	Demand Response Mechanism and Ancillary Services Unbundling.....	1527
11.94	Rules consequential on the making of the National Electricity Amendment (Demand Response Management and Ancillary Services Unbundling) rule 2016.....	1527
11.94.1	Definitions	1527
11.94.2	Participant fees for Market Ancillary Service Providers	1527
Part ZZW	Local Generation Network Credits	1527
11.95	Rules consequential on the making of the National Electricity Amendment (Local Generation Network Credits) Rule 2016	1527
11.95.1	Definitions	1527
11.95.2	System limitation template	1528
Part ZXZ	Retailer-Distributor Credit Support Requirements.....	1528
11.96	Rules consequent on the making of the National Electricity Amendment (Retailer Distributor Credit Support Requirements) Rule 2017 No. 1	1528
11.96.1	Definitions	1528
11.96.2	Continued operation of old Chapter 6B	1528
11.96.3	Interaction with Chapter 6	1528

11.96.4	Application of new Chapter 6B	1528
Part ZZY	Emergency Frequency Control Schemes.....	1529
11.97	Rules consequent on the making of the National Electricity Amendment (Emergency frequency control schemes) Rule 2017.....	1529
11.97.1	Definitions	1529
11.97.2	Interim frequency operating standards for protected events.....	1529
11.97.3	First power system frequency risk review	1530
11.97.4	AEMO must review existing load shedding procedures	1530
11.97.5	Load shedding procedures	1530
Part ZZZ	Transmission Connection and Planning Arrangements	1531
11.98	Rules consequential on the making of the National Electricity Amendment (Transmission Connection and Planning Arrangements) Rule 2017	1531
11.98.1	Definitions	1531
11.98.2	Grandfathering of existing dedicated connection assets.....	1532
11.98.3	Preparatory steps for registration changes under the Amending Rule.....	1532
11.98.4	Participant fees for Dedicated Connection Asset Service Providers	1533
11.98.5	Existing Connection Agreements	1533
11.98.6	Connection process	1533
11.98.7	Transmission Annual Planning Report.....	1534
11.98.8	Preservation for adoptive jurisdictions	1534
Part ZZZA	Replacement expenditure planning arrangements.....	1534
11.99	Rules consequential on the making of the National Electricity Amendment (Replacement expenditure planning arrangements) Rule 2017	1534
11.99.1	Definitions	1534
11.99.2	Interpretation.....	1535
11.99.3	Transitional arrangements for affected DNSPs	1536
11.99.4	Amendments to RIT documentation.....	1536
11.99.5	Transitional arrangements relating to excluded projects	1536
11.99.6	Transitional arrangements relating to Victorian bushfire mitigation projects.....	1536
11.99.7	Transitional arrangements relating to review of costs thresholds.....	1537
Part ZZZB	Managing the rate of change of power system frequency.....	1537
11.100	Rules consequential on the making of the National Electricity Amendment (Managing the rate of change of power system frequency) Rule 2017.....	1537
11.100.1	Definitions	1537
11.100.2	Inertia sub-networks	1538
11.100.3	Inertia requirements methodology	1538
11.100.4	Inertia requirements	1538
11.100.5	NSCAS not to be used to meet an inertia shortfall after 1 July 2019	1539
11.100.6	Inertia network services may be used to meet an NSCAS gap declared in the NSCAS transition period.....	1539
11.100.7	Inertia network services made available before the commencement date.....	1540

Part ZZZC	Managing power system fault levels	1540
11.101	Rules consequential on the making of the National Electricity Amendment (Managing power system fault levels) Rule 2017.....	1540
11.101.1	Definitions	1540
11.101.2	System strength impact assessment guidelines.....	1542
11.101.3	System strength requirements methodology.....	1542
11.101.4	System strength requirements.....	1542
11.101.5	NSCAS not to be used to meet a fault level shortfall after 1 July 2019	1543
11.101.6	System strength services may be used to meet an NSCAS gap declared in the NSCAS transition period.....	1543
11.101.7	Withdrawal of a system strength-related NSCAS gap already declared.....	1544
11.101.8	System strength services made available before the commencement date.....	1544
Part ZZZD	Generating System Model Guidelines.....	1544
11.102	Making of Power System Model Guidelines	1544
Part ZZZE	Five Minute Settlement	1544
11.103	Rules consequential on the making of the National Electricity Amendment (Five Minute Settlement) Rule 2017.....	1544
11.103.1	Definitions	1544
11.103.2	Amendments to procedures	1545
11.103.3.	Exemption for certain metering installations.....	1546
11.103.4	New or replacement meters	1546
11.103.5	Metering installations exempt from metering data provision requirements	1547
11.103.6	Exemption from meter data storage requirements	1547
11.103.7	Default offers and bids submitted prior to the commencement date	1547
Part ZZZF	Contestability of energy services	1547
11.104	Rules consequential on the making of the National Electricity Amendment (Contestability of energy services) Rule 2017	1547
11.104.1	Definitions	1547
11.104.2	New guidelines	1549
11.104.3	Transitional arrangements for application of Distribution Service Classification Guidelines and service classification provisions	1549
11.104.4	Transitional arrangements for application of Asset Exemption Guidelines, exemption applications and asset exemption decisions.....	1549
11.104.5	Transitional arrangements for adjustment in value of regulatory asset base	1551
Part ZZZG	Declaration of lack of reserve conditions.....	1551
11.105	Making of lack of reserve declaration guidelines	1551
11.105.1	Definitions	1551
11.105.2	Making of lack of reserve declaration guidelines	1551
Part ZZZH	Implementation of demand management incentive scheme	1551
11.106	Implementation of demand management incentive scheme	1551
11.106.1	Definitions	1551

11.106.2	Purpose	1552
11.106.3	Early application of revised demand management incentive scheme	1552
Part ZZZI	Reinstatement of long notice Reliability and Emergency Reserve Trader.....	1553
11.107	Rules consequential on the making of the National Electricity Amendment (Reinstatement of long notice Reliability and Emergency Reserve Trader) Rule 2018.....	1553
11.107.1	Definitions	1553
11.107.2	New RERT guidelines	1554
11.107.3	Amendments to RERT procedures	1557
11.107.4	Reserve contracts entered into before the commencement date	1557
Part ZZZJ	Register of distributed energy resources	1557
11.108	Rules consequential on the making of the National Electricity Amendment (Register of distributed energy resources) Rule 2018	1557
11.108.1	Definitions	1557
11.108.2	AEMO to develop and publish DER register information guidelines	1558
11.108.3	NSPs to provide AEMO with existing DER generation information	1558
Part ZZZK	Generator technical performance standards	1558
11.109	Rules consequential on the making of the National Electricity Amendment (Generator technical performance standards) Rule 2018	1558
11.109.1	Definitions	1558
11.109.2	Application of the Amending Rule to existing connection enquiries	1559
11.109.3	Application of the Amending Rule to existing applications to connect	1560
11.109.4	Application of the Amending Rule to existing offers to connect	1562
11.109.5	Application of the Amending Rule to Existing Connection Agreements	1562
Part ZZZL	Generator three year notice of closure	1563
11.110	Rules consequential on the making of the National Electricity Amendment (Generator three year notice of closure) Rule 2018.....	1563
11.110.1	Definitions	1563
11.110.2	AER to develop and publish notice of closure exemption guideline	1563
11.110.3	Application of Amending Rule to AEMO	1563
11.110.4	Application of Amending Rule to Generators	1563
Part ZZZM	Participant compensation following market suspension.....	1564
11.111	Rules consequential on the making of the National Electricity Amendment (Participant compensation following market suspension) Rule 2018.....	1564
11.111.1	Definitions	1564
11.111.2	Market suspension compensation methodology and schedule of benchmark values	1564
Part ZZZN	Global settlement and market reconciliation	1564

11.112	Rules consequential on the making of the National Electricity Amendment (Global settlement and market reconciliation) Rule 2018	1564
11.112.1	Definitions	1564
11.112.2	Amendments to AEMO procedures.....	1565
11.112.3	AEMO to publish report on unaccounted for energy trends.....	1565
11.112.4	Continuation of registration for non-market generators	1565
11.112.5	Publication of UFE data by AEMO.....	1565
11.112.6	Publication of UFE reporting guidelines	1566
Part ZZZO	Metering installation timeframes	1566
11.113	Rules consequential on making of the National Electricity Amendment (Metering installation timeframes) Rule 2018	1566
11.113.1	Definitions	1566
11.113.2	Timeframes for meters to be installed	1566
Part ZZZP	Early implementation of ISP priority projects	1567
11.114	National Electricity Amendment (Early implementation of ISP priority projects) Rule 2019	1567
11.114.1	Definitions	1567
11.114.2	Modifications to clause 5.16.6 for ISP VNI and QNI projects.....	1568
11.114.3	Modifications to clause 6A.8.2 for ISP projects.....	1569
Part ZZZQ	Enhancement to the Reliability and Emergency Reserve Trader.....	1571
11.115	Rules consequential on the making of the National Electricity Amendment (Enhancement to the reliability and emergency reserve trader) Rule 2019.....	1571
11.115.1	Definitions	1571
11.115.2	New RERT guidelines	1572
11.115.3	Amendments to RERT procedures	1572
11.115.4	Reserve contracts entered into before the commencement date	1572
11.115.5	Clause 3.20.6 (Reporting on RERT by AEMO).....	1572
Part ZZZR	Retailer Reliability Obligation.....	1572
11.116	Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation) Rule 2019.....	1572
11.116.1	Application	1572
11.116.2	Reliability Instrument Guidelines	1573
11.116.3	Forecasting Best Practice Guidelines	1573
11.116.4	Reliability Forecast Guidelines.....	1573
11.116.5	AER Opt-in Guidelines.....	1574
11.116.6	Contracts and Firmness Guidelines	1574
11.116.7	Qualifying contracts under interim Contracts and Firmness Guidelines	1574
11.116.8	Grandfathering arrangements	1574
11.116.9	Reliability Compliance Procedures and Guidelines	1575
11.116.10	MLO Guidelines	1576
11.116.11	Application of Part G, Divisions 2 – 6 (inclusive)	1576
11.116.12	Interim deeming of MLO generators and MLO groups	1577
11.116.13	MLO information template	1583
11.116.14	Initial MLO register	1584

11.116.15	Approved MLO products list.....	1584
11.116.16	Designated MLO exchange	1584
11.116.17	Five minute settlement intervals	1584
11.116.18	Review by AEMC.....	1584
Part ZZZS	Transparency of new projects	1585
11.117	Rules consequential on the making of the National Electricity Amendment (Transparency of new projects) Rule 2019.....	1585
11.117.1	Definitions	1585
11.117.2	Generation information page	1585
11.117.3	Generation information guidelines	1585
11.117.4	Provision and use of information.....	1586
Part ZZZT	Demand management incentive scheme and innovation allowance for TNSPs.....	1586
11.118	Rules consequential on the making of the National Electricity Amendment (Demand management incentive scheme and innovation allowance for TNSPs) Rule 2019	1586
11.118.1	Definitions	1586
11.118.2	AER to develop and publish the demand management innovation allowance mechanism.....	1586
Part ZZZU	Application of the regional reference node test to the Reliability and Emergency Reserve Trader.....	1587
11.119	Rules consequential on the making of the National Electricity Amendment (Application of the regional reference node test to the Reliability and Emergency Reserve Trader) Rule 2019	1587
11.119.1	Definitions	1587
11.119.2	AEMO intervention event in effect on commencement date	1587
Part ZZZV	Improving Transparency and Extending Duration of MT PASA.....	1587
11.120	Rules consequential on the making of the National Electricity Amendment (Improving transparency and extending duration of MT PASA) Rule 2020.....	1587
11.120.1	AEMO to update spot market operations timetable	1587
Part ZZZW	Victorian jurisdictional derogation – RERT contracting	1587
11.121	Rules consequential on the making of the National Electricity Amendment (Victorian jurisdictional derogation - RERT contracting) Rule 2020	1587
11.121.1	Definitions	1587
11.121.2	Procedures.....	1588
Part ZZZX	Mandatory primary frequency response.....	1588
11.122	Rules consequential on the making of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020	1588
11.122.1	Definitions	1588
11.122.2	Interim Primary Frequency Response Requirements	1588
11.122.3	Action taken prior to commencement.....	1589

Part ZZZY	System restart services, standards and testing.....	1589
11.123	Rules consequential on the making of the National Electricity Amendment (System restart services, standards and testing) Rule 2020	1589
11.123.1	Definitions	1589
11.123.2	SRAS Guideline.....	1589
11.123.3	System restart standard	1590
11.123.4	Communication protocols.....	1590
11.123.5	System restart tests	1590
Part ZZZZ	Introduction of metering coordinator planned interruptions	1590
11.124	Rules consequential on the making of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020	1590
11.124.1	Definitions	1590
11.124.2	Amendments of the metrology procedure	1591
11.124.3	Market Settlement and Transfer Solutions Procedures	1591
11.124.4	Requirements of the metrology procedure	1591