

National Electricity Rules As in force in the Northern Territory Version 77

Historical Information

This version of the National Electricity Rules As in force in the Northern Territory was current from 1 September 2021 to 30 September 2021.

National Electricity Rules As in force in the Northern Territory

Version 77

Status Information

This is the latest electronically available version of the National Electricity Rules as in force in the Northern Territory (NT NER) as at 1 September 2021.

This consolidated version of the NT NER reflects the current version of the National Electricity Rules (version 171) as amended by the following regulations made by the Northern Territory under section 13(2)(c) of the *National Electricity (Northern Territory) (National Uniform Legislation) Act*:

National Electricity (Northern Territory) (National Uniform Legislation) (Modification) Regulations.

Provisions in force

All provisions displayed in this consolidated version of the Rules have commenced.

As at the date of this consolidation:

- (a) the Australian Energy Market Commission has made certain Rules under Part 7, Division 3 of the National Electricity Law that have not yet commenced. A complete list of these Rules is set out under "Provisions in Force" on the cover sheet of the latest version of the National Electricity Rules.
- (b) As at the date of this consolidation, the Northern Territory has adopted (or adopted a modified version of) various provisions of the National Electricity Rules with effect from 1 July 2019 and certain other provisions with effect from the date that the Northern Territory adopts the National Energy Retail Law as a law of the Northern Territory. The provisions to be adopted and the modifications to those provisions (if relevant) are specified in the National Electricity (Northern Territory)(National Uniform Legislation)(Modification) Regulations.

This consolidated version of the NT NER contains drafting notes to indicate the provisions of the National Electricity Rules that have been adopted in the Northern Territory with effect from a later date.

TABLE OF CONTENTS

1. Introduction3

1.1 Preliminary.....3

1.1.1 References to the Rules3

1.1.2 Italicised expressions3

1.1.3 [Deleted]3

1.2 Background3

1.3 Nomenclature of and references to provisions of a Chapter3

1.3.1A1 Definitions3

1.3.1 Introduction.....3

1.3.2 Parts, Divisions and Subdivisions.....3

1.3.3 Rules, clauses, paragraphs, subparagraphs and other items4

1.4 Effect of renumbering of provisions of the Rules5

1.5 [Deleted].....5

1.6 [Deleted].....5

1.7 Interpretation.....5

1.7.1 General.....5

1.7.1A Inconsistency with National Measurement Act6

1.7.1B Instruments6

1.8 Notices.....7

1.8.1 Service of notices under the Rules.....7

1.8.2 Time of service7

1.8.3 Counting of days.....8

1.8.4 Reference to addressee8

1.9 Retention of Records and Documents.....8

1.9A NTESMO’s costs in connection with these Rules8

1.10 [Deleted].....8

1.11 AEMO Rule Funds8

2. Registered Participants and Registration13

2A. Regional Structures.....17

3. Market Rules21

4. Power System Security25

4A. Retailer Reliability Obligation29

Part A Introduction.....29

4A.A Definitions.....29

4A.A.1	Definitions	29
4A.A.2	Forecast reliability gap materiality	32
4A.A.3	One-in-two year peak demand forecast	32
4A.A.4	Peak demand	33
Part B	Reliability Forecasts	33
4A.B.1	Reliability forecast.....	33
4A.B.2	Reliability forecast components	34
4A.B.3	Supporting materials	34
4A.B.4	Reliability Forecast Guidelines.....	34
4A.B.5	AER Forecasting Best Practice Guidelines	36
Part C	Reliability Instruments.....	36
Division 1	AEMO request for a reliability instrument.....	36
4A.C.1	AEMO request for a reliability instrument	36
4A.C.2	AEMO request for a T-3 reliability instrument	36
4A.C.3	AEMO request for a T-1 reliability instrument	37
4A.C.4	Related T-3 reliability instrument.....	37
4A.C.5	Notification of a closed forecast reliability gap at T-1	38
4A.C.6	Corrections to a request	38
4A.C.7	Withdrawing a request	38
Division 2	AER making of a reliability instrument	39
4A.C.8	AER making of a reliability instrument.....	39
4A.C.9	When a decision by the AER must be made.....	39
4A.C.10	T-1 reliability instrument components.....	39
4A.C.11	AER decision making criteria.....	39
4A.C.12	Reliability Instrument Guidelines	40
Part D	Liabile Entities	40
4A.D.1	Application	40
4A.D.2	Liabile entities.....	40
4A.D.3	New entrants	41
4A.D.4	Application to register as large opt-in customer	41
4A.D.5	Application to register as prescribed opt-in customer	42
4A.D.6	Thresholds.....	43
4A.D.7	Opt-in cut-off day	43
4A.D.8	AER approval of applications.....	43
4A.D.9	AER opt-in register	44
4A.D.10	Changes to register	44
4A.D.11	AER register taken to be correct.....	45
4A.D.12	AEMO Opt-In Procedures	45
4A.D.13	AER Opt-In Guidelines	45
Part E	Qualifying Contracts and Net Contract Position.....	46
Division 1	Key concepts.....	46
4A.E.1	Qualifying contracts.....	46
4A.E.2	Net contract position.....	47
Division 2	Firmness methodologies	48
4A.E.3	Firmness methodology.....	48
4A.E.4	Types of methodologies.....	48
4A.E.5	Approval of a bespoke firmness methodology	48

Division 3	Reporting net contract position	49
4A.E.6	Reporting requirements	49
Division 4	Adjustment of net contract position.....	50
4A.E.7	Adjustment of net contract position.....	50
Division 5	Contracts and Firmness Guidelines	51
4A.E.8	Contracts and Firmness Guidelines	51
Part F	Compliance with the Retailer Reliability Obligation	52
Division 1	Application	52
4A.F.1	Application	52
Division 2	Key concepts.....	52
4A.F.2	Compliance TI	52
4A.F.3	Share of one-in-two year peak demand forecast.....	53
Division 3	AEMO notifications to AER.....	54
4A.F.4	AEMO notification of compliance trading intervals	54
4A.F.5	AEMO compliance report.....	54
Division 4	AER assessment of compliance.....	55
4A.F.6	Reliability Compliance Procedures and Guidelines	55
4A.F.7	AER assessment.....	55
4A.F.8	AER notification to AEMO for PoLR costs	55
Division 5	Miscellaneous	56
4A.F.9	Demand response information	56
4A.F.10	PoLR cost procedures	56
Part G	Market Liquidity Obligation	56
Division 1	Preliminary.....	56
4A.G.1	Overview of Part G	56
4A.G.2	Purpose and application	57
Division 2	Market Generators and trading right holders	57
4A.G.3	Market Generators and generator capacity	57
4A.G.4	Trading rights and trading right holders	58
Division 3	Trading groups.....	58
4A.G.5	Trading group	58
4A.G.6	Controlling entity.....	59
Division 4	Traced capacity and trading group capacity	61
4A.G.7	Traced capacity	61
4A.G.8	Tracing capacity to trading groups	61
4A.G.9	Trading group capacity	61
Division 5	MLO generators and MLO groups.....	62
4A.G.10	MLO group	62
4A.G.11	MLO generator	62
Division 6	Market Generator information	62
4A.G.12	MLO register	62
4A.G.13	Market Generator information	63
4A.G.14	Applications to the AER.....	64

Division 7	Liquidity period	65
4A.G.15	Notices prior to a liquidity period.....	65
4A.G.16	Duration of liquidity period	65
Division 8	Liquidity obligation	66
4A.G.17	Liquidity obligation	66
4A.G.18	Performing a liquidity obligation.....	66
4A.G.19	Volume limits	68
4A.G.20	Appointment of MLO nominee	68
4A.G.21	Exemptions	69
Division 9	MLO products and MLO exchange	70
4A.G.22	MLO products.....	70
4A.G.23	MLO exchange	71
Division 10	Miscellaneous	72
4A.G.24	MLO compliance and reporting.....	72
4A.G.25	MLO Guidelines	72
Part H	Voluntary Book Build.....	73
4A.H.1	Purpose and application.....	73
4A.H.2	Book Build Procedures	73
4A.H.3	Commencement of voluntary book build	74
4A.H.4	Participation in the voluntary book build	74
4A.H.5	Book build fees	75
4A.H.6	Reporting	75
5.	Network Connection Access, Planning and Expansion	79
Part A	Introduction.....	79
5.1	Introduction to Chapter 5	79
5.1.1	Structure of this Chapter	79
5.1.2	Overview of Part B and connection and access under the Rules.....	79
5.1.3	Definitions	82
Part B	Network Connection and Access	83
5.1A	Introduction to Part B	83
5.1A.1	Purpose and Application.....	83
5.1A.2	Principles	85
5.1A.3	Dedicated connection asset service providers	86
5.2	Obligations.....	86
5.2.1	Obligations of Registered Participants	86
5.2.2	Connection agreements.....	87
5.2.3	Obligations of network service providers.....	87
5.2.3A	Obligations of Market Network Service Providers	92
5.2.4	Obligations of customers	93
5.2.5	Obligations of Generators.....	95
5.2.6	Obligations of AEMO.....	96
5.2.6A	AEMO review of technical requirements for connection	97
5.2.7	Obligations of designated network asset owners	98
5.2A	Transmission network connection and access.....	98

5.2A.1	Application	98
5.2A.2	Relevant assets.....	98
5.2A.3	Connection and access to transmission services.....	100
5.2A.4	Transmission services related to connection	102
5.2A.5	Publication and provision of information	106
5.2A.6	Negotiating principles.....	106
5.2A.7	Third party owned network assets and network operating agreements	107
5.2A.8	Access framework for designated network assets	108
5.3	Establishing or Modifying Connection	111
5.3.1	Process and procedures.....	111
5.3.1A	Application of rule to connection of embedded generating units.....	112
5.3.2	Connection enquiry.....	112
5.3.3	Response to connection enquiry	114
5.3.4	Application for connection	118
5.3.4A	Negotiated access standards	119
5.3.4B	System strength remediation for new connections	123
5.3.5	Preparation of offer to connect	126
5.3.6	Offer to connect	127
5.3.7	Finalisation of connection agreements and network operating agreements	130
5.3.8	Provision and use of information.....	132
5.3.9	Procedure to be followed by a Generator proposing to alter a generating system	134
5.3.10	Acceptance of performance standards for generating plant that is altered	136
5.3.11	Notification of request to change normal voltage.....	136
5.3A	Establishing or modifying connection - embedded generation.....	137
5.3A.A1	Definitions	137
5.3A.1	Application of rule 5.3A	137
5.3A.2	Miscellaneous	138
5.3A.3	Publication of Information.....	138
5.3A.4	Fees	140
5.3A.5	Enquiry	141
5.3A.6	Response to Enquiry	142
5.3A.7	Preliminary Response to Enquiry	142
5.3A.8	Detailed Response to Enquiry	143
5.3A.9	Application for connection	144
5.3A.10	Preparation of offer to connect	145
5.3A.11	Technical Dispute	146
5.3A.12	Network support payments and functions	146
5.3AA	Access arrangements relating to Distribution Networks	147
5.3B	Application for connection to declared shared network	150
5.4	Independent Engineer	151
5.4.1	Application	151
5.4.2	Establishment of a pool	151
5.4.3	Initiating the Independent Engineer process.....	152
5.4.4	Referral to the Adviser.....	152

5.4.5	Proceedings and decisions of the Independent Engineer.....	153
5.4.6	Costs of the Independent Engineer	154
5.4A	[Deleted].....	154
5.4AA	[Deleted].....	154
5.5	Commercial arbitration for prescribed and negotiated transmission services and DNA services.....	154
5.5.1	Application	154
5.5.2	Notification of dispute	155
5.5.3	Appointment of commercial arbitrator	155
5.5.4	Procedures of commercial arbitrator.....	156
5.5.5	Powers of commercial arbitrator in determining disputes.....	156
5.5.6	Determination of disputes.....	157
5.5.7	Costs of dispute.....	158
5.5.8	Enforcement of agreement or determination and requirement for reasons	159
5.5.9	Miscellaneous	159
5.5A	[Deleted].....	159
Part C	Post-Connection Agreement matters	159
5.6	Design of Connected Equipment	159
5.6.1	Application	159
5.6.2	Advice of inconsistencies	160
5.6.3	Additional information	160
5.6.4	Advice on possible non-compliance	160
5.6A	[Deleted].....	161
5.7	Inspection and Testing	161
5.7.1	Right of entry and inspection.....	161
5.7.2	Right of testing	163
5.7.3	Tests to demonstrate compliance with connection requirements for generators.....	164
5.7.3A	Tests to demonstrate compliance with system strength remediation schemes.....	166
5.7.4	Routine testing of protection equipment.....	167
5.7.5	Testing by Registered Participants of their own plant requiring changes to normal operation.....	169
5.7.6	Tests of generating units requiring changes to normal operation.....	171
5.7.7	Inter-network power system tests	172
5.7.8	Functional specifications compliance.....	178
5.8	Commissioning	178
5.8.1	Requirement to inspect and test equipment	178
5.8.2	Co-ordination during commissioning	179
5.8.3	Control and protection settings for equipment	179
5.8.4	Commissioning program	180
5.8.5	Commissioning tests.....	181
5.9	Disconnection and Reconnection.....	181
5.9.1	Voluntary disconnection.....	181
5.9.2	Decommissioning procedures.....	182

5.9.3	Involuntary disconnection	182
5.9.4	Direction to disconnect	183
5.9.4A	Notification of disconnection	184
5.9.5	Disconnection during an emergency	184
5.9.6	Obligation to reconnect.....	184
Part D	Network Planning and Expansion.....	185
5.10	Network development generally	185
5.10.1	Content of Part D	185
5.10.2	Definitions	186
5.10.3	Interpretation.....	191
5.11	Forecasts of connection to transmission network and identification of system limitations.....	191
5.11.1	Forecasts for connection to transmission network.....	191
5.11.2	Identification of network limitations	192
5.12	Transmission annual planning process.....	193
5.12.1	Transmission annual planning review	193
5.12.2	Transmission Annual Planning Report.....	194
5.13	Distribution annual planning process.....	198
5.13.1	Distribution annual planning review	198
5.13.2	Distribution Annual Planning Report	200
5.13.3	Distribution system limitation template.....	200
5.13A	Distribution zone substation information.....	202
5.14	Joint planning.....	204
5.14.1	Joint planning obligations of Transmission Network Service Providers and Distribution Network Service Providers.....	204
5.14.2	Joint planning obligations of Distribution Network Service Providers and Distribution Network Service Providers.....	206
5.14.3	Joint planning obligations of Transmission Network Service Providers	206
5.14.4	Joint ISP planning by Transmission Network Service Providers and AEMO.....	206
5.14A	Joint planning in relation to retirement or de-ratings of network assets forming part of the Declared Shared Network.....	207
5.14B	TAPR Guidelines	207
5.14B.1	Development of TAPR Guidelines	207
5.15	Regulatory investment tests generally	208
5.15.1	Interested parties	208
5.15.2	Identification of a credible option.....	208
5.15.3	Review of costs thresholds	209
5.15.4	Costs determinations.....	211
5.15A	Regulatory investment test for transmission.....	212
5.15A.1	General principles and application	212
5.15A.2	Principles for RIT-T projects which are not actionable ISP projects	212
5.15A.3	Principles for actionable ISP projects.....	215

5.16	Application of RIT-T to RIT-T projects which are not actionable ISP projects.....	216
5.16.1	Application	216
5.16.2	Regulatory investment test for transmission application guidelines	217
5.16.3	Investments subject to the regulatory investment test for transmission	218
5.16.4	Regulatory investment test for transmission procedures	221
5.16.5	[Deleted]	227
5.16.6	[Deleted]	227
5.16A	Application of the RIT-T to actionable ISP Projects	227
5.16A.1	Application	227
5.16A.2	Cost Benefit Analysis Guidelines	227
5.16A.3	Actionable ISP projects subject to the RIT-T	228
5.16A.4	Regulatory investment test for transmission procedures	228
5.16A.5	Actionable ISP project trigger event.....	231
5.16B	Disputes in relation to application of regulatory investment test for transmission	232
5.17	Regulatory investment test for distribution	234
5.17.1	Principles	234
5.17.2	Regulatory investment test for distribution application guidelines	236
5.17.3	Projects subject to the regulatory investment test for distribution	238
5.17.4	Regulatory investment test for distribution procedures	239
5.17.5	Disputes in relation to application of regulatory investment test for distribution.....	244
5.18	Construction of funded augmentations	246
5.18A	Generator connections.....	246
5.18A.1	Definitions	246
5.18A.2	Register of generator connections	247
5.18A.3	Impact assessment of large generator connections	248
5.18B	Completed embedded generation projects	249
5.18B.1	Definitions	249
5.18B.2	Register of completed embedded generation projects	249
5.19	SENE Design and Costing Study.....	250
5.19.1	Definitions	250
5.19.2	Interpretation.....	250
5.19.3	Request for SENE Design and Costing Study	251
5.19.4	Content of SENE Design and Costing Study	252
5.19.5	Co-operation of other Network Service Providers	253
5.19.6	Publication of SENE Design and Costing Study report	253
5.19.7	Provision and use of information.....	253
5.20	System security reports	254
5.20.1	Definitions	254
5.20.2	Publication of NSCAS methodology	254
5.20.3	Publication of NSCAS Report	254
5.20.4	Inertia requirements methodology	255
5.20.5	Publication of Inertia Report	255
5.20.6	Publication of system strength requirements methodologies	256

5.20.7	Publication of System Strength Report.....	257
5.20A	Frequency management planning	257
5.20A.1	Power system frequency risk review	257
5.20A.2	Power system frequency risk review process	258
5.20A.3	Power system frequency risk review report.....	258
5.20A.4	Request for protected event declaration.....	259
5.20A.5	Request to revoke a protected event declaration	260
5.20B	Inertia sub-networks and requirements	260
5.20B.1	Boundaries of inertia sub-networks	260
5.20B.2	Inertia requirements	261
5.20B.3	Inertia shortfalls	261
5.20B.4	Inertia Service Provider to make available inertia services.....	262
5.20B.5	Inertia support activities	264
5.20B.6	Inertia network services information and approvals.....	266
5.20C	System strength requirements	267
5.20C.1	System strength requirements.....	267
5.20C.2	Fault level shortfalls	268
5.20C.3	System Strength Service Provider to make available system strength services.....	269
5.20C.4	System strength services information and approvals.....	270
5.21	AEMO's obligation to publish information and guidelines and provide advice	272
5.22	Integrated System Plan	274
5.22.1	Duty of AEMO to make Integrated System Plan	274
5.22.2	Purpose of the ISP	274
5.22.3	Power system needs.....	274
5.22.4	ISP timetable.....	275
5.22.5	Guidelines relevant to the ISP	275
5.22.6	Content of Integrated System Plan	277
5.22.7	ISP consumer panel	278
5.22.8	Preliminary consultations	279
5.22.9	AER transparency review on Inputs, Assumptions and Scenarios Report	280
5.22.10	Preparation of ISP.....	280
5.22.11	Draft Integrated System Plan.....	283
5.22.12	Non-network options	283
5.22.13	AER transparency review of draft Integrated System Plan	284
5.22.14	Final Integrated System Plan.....	284
5.22.15	ISP updates	285
5.22.16	ISP database.....	286
5.22.17	Jurisdictional planning bodies and jurisdictional planning representatives	287
5.22.18	NTP Functions.....	287
5.23	Disputes in relation to an ISP	287
5.23.1	Disputing party	287
5.23.2	Initial AER review	288
5.23.3	Provision of further information	288
5.23.4	AER determination	289

5.24	REZ design reports and joint REZ planning	290
5.24.1	REZ design reports	290
5.24.2	Joint REZ planning by jurisdictional planning bodies and AEMO	292
Schedule 5.1a	System standards	292
S5.1a.1	Purpose	292
S5.1a.2	Frequency	293
S5.1a.3	System stability.....	293
S5.1a.4	Power frequency voltage	293
S5.1a.5	Voltage fluctuations.....	294
S5.1a.6	Voltage waveform distortion	295
S5.1a.7	Voltage unbalance	295
S5.1a.8	Fault clearance times	296
Schedule 5.1	Network Performance Requirements to be Provided or Co-ordinated by Network Service Providers	297
S5.1.1	Introduction.....	297
S5.1.2	Network reliability.....	298
S5.1.2.1	Credible contingency events.....	298
S5.1.2.2	Network service within a region.....	299
S5.1.2.3	Network service between regions.....	300
S5.1.3	Frequency variations.....	301
S5.1.4	Magnitude of power frequency voltage.....	301
S5.1.5	Voltage fluctuations.....	302
S5.1.6	Voltage harmonic or voltage notching distortion	303
S5.1.7	Voltage unbalance	304
S5.1.8	Stability.....	305
S5.1.9	Protection systems and fault clearance times	306
S5.1.10	Load, generation and network control facilities	309
S5.1.10.1	General.....	309
S5.1.10.1a	Emergency frequency control schemes	309
S5.1.10.2	Distribution Network Service Providers.....	311
S5.1.10.3	Transmission Network Service Providers	311
S5.1.11	Automatic reclosure of transmission or distribution lines.....	311
S5.1.12	Rating of transmission lines and equipment.....	311
S5.1.13	Information to be provided	312
Schedule 5.2	Conditions for Connection of Generators	312
S5.2.1	Outline of requirements	312
S5.2.2	Application of Settings	313
S5.2.3	Technical matters to be coordinated	314
S5.2.4	Provision of information.....	315
S5.2.5	Technical requirements.....	318
S5.2.5.1	Reactive power capability.....	318
S5.2.5.2	Quality of electricity generated.....	319
S5.2.5.3	Generating system response to frequency disturbances	320
S5.2.5.4	Generating system response to voltage disturbances.....	323
S5.2.5.5	Generating system response to disturbances following contingency events	324
S5.2.5.6	Quality of electricity generated and continuous uninterrupted operation	332
S5.2.5.7	Partial load rejection	332

S5.2.5.8	Protection of generating systems from power system disturbances	333
S5.2.5.9	Protection systems that impact on power system security.....	334
S5.2.5.10	Protection to trip plant for unstable operation	336
S5.2.5.11	Frequency control	337
S5.2.5.12	Impact on network capability	340
S5.2.5.13	Voltage and reactive power control	341
S5.2.5.14	Active power control	347
S5.2.6	Monitoring and control requirements	349
S5.2.6.1	Remote Monitoring.....	349
S5.2.6.2	Communications equipment	352
S5.2.7	Power station auxiliary supplies	353
S5.2.8	Fault current.....	353
Schedule 5.3	Conditions for Connection of Customers	354
S5.3.1a	Introduction to the schedule.....	354
S5.3.1	Information	355
S5.3.2	Design standards.....	357
S5.3.3	Protection systems and settings	357
S5.3.4	Settings of protection and control systems	358
S5.3.5	Power factor requirements.....	359
S5.3.6	Balancing of load currents	360
S5.3.7	Voltage fluctuations.....	361
S5.3.8	Harmonics and voltage notching	361
S5.3.9	Design requirements for Network Users' substations.....	361
S5.3.10	Load shedding facilities.....	362
Schedule 5.3a	Conditions for connection of Market Network Services	362
S5.3a.1a	Introduction to the schedule.....	362
S5.3a.1	Provision of Information.....	363
S5.3a.2	Application of settings.....	365
S5.3a.3	Technical matters to be co-ordinated.....	366
S5.3a.4	Monitoring and control requirements	366
S5.3a.4.1	Remote Monitoring.....	366
S5.3a.4.2	[Deleted]	367
S5.3a.4.3	Communications equipment	367
S5.3a.5	Design standards.....	368
S5.3a.6	Protection systems and settings	368
S5.3a.7	[Deleted]	369
S5.3a.8	Reactive power capability.....	369
S5.3a.9	Balancing of load currents	370
S5.3a.10	Voltage fluctuations.....	370
S5.3a.11	Harmonics and voltage notching	371
S5.3a.12	Design requirements for Market Network Service Providers' substations.....	371
S5.3a.13	Market network service response to disturbances in the power system	372
S5.3a.14	Protection of market network services from power system disturbances	372
Schedule 5.4	Information to be Provided with Preliminary Enquiry	373
Schedule 5.4A	Preliminary Response.....	373

Schedule 5.4B Detailed Response to Enquiry.....376

Schedule 5.5 Technical Details to Support Application for Connection and Connection Agreement.....378

S5.5.1 Introduction to the schedule..... 378

S5.5.2 Categories of data 378

S5.5.3 Review, change and supply of data 379

S5.5.4 Data Requirements..... 379

S5.5.5 Asynchronous generating unit data 380

S5.5.6 Generating units smaller than 30MW data 380

S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines 380

Schedule 5.5.1 [Deleted] 383

Schedule 5.5.2 [Deleted] 383

Schedule 5.5.3 Network and plant technical data of equipment at or near connection point..... 383

Schedule 5.5.4 Network Plant and Apparatus Setting Data 386

Schedule 5.5.5 Load Characteristics at Connection Point..... 388

Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements389

Part A Connection agreements389

Part B Network Operating Agreements391

Schedule 5.7 Annual Forecast Information for Planning Purposes391

Schedule 5.8 Distribution Annual Planning Report394

Schedule 5.9 Demand side engagement document (clause 5.13.1(h)).....401

Schedule 5.10 Information requirements for Primary Transmission Network Service Providers (clause 5.2A.5)402

Schedule 5.11 Negotiating principles for negotiated transmission services (clause 5.2A.6)405

Schedule 5.12 Negotiating principles for DNA services.....407

5A. Electricity connection for retail customers411

Part A Preliminary.....411

5A.A.1 Definitions 411

5A.A.2 Application of this Chapter..... 414

5A.A.3 Market Small Generation Aggregator deemed to be agent of its MSGA customers..... 414

Part B Standardised offers to provide basic and standard connection services415

Division 1 Basic connection services415

5A.B.1 Obligation to have model standing offer to provide basic connection services 415

5A.B.2 Proposed model standing offer for basic connection services..... 415

5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services 416

Division 2	Standard connection services.....	417
5A.B.4	Standard connection services.....	417
5A.B.5	Approval of model standing offer to provide standard connection services	418
Division 3	Miscellaneous	419
5A.B.6	Amendment etc of model standing offer	419
5A.B.7	Publication of model standing offers	420
Part C	Negotiated connection	420
5A.C.1	Negotiation of connection.....	420
5A.C.2	Process of negotiation.....	420
5A.C.3	Negotiation framework.....	421
5A.C.4	Fee to cover cost of negotiation.....	423
Part D	Application for connection service	423
Division 1	Information	423
5A.D.1	Publication of information.....	423
5A.D.1A	Register of completed embedded generation projects	423
Division 2	Preliminary enquiry	425
5A.D.2	Preliminary enquiry	425
Division 3	Applications.....	426
5A.D.3	Application process	426
5A.D.4	Site inspection.....	427
Part E	Connection charges.....	427
5A.E.1	Connection charge principles	427
5A.E.2	Itemised statement of connection charges	428
5A.E.3	Connection charge guidelines.....	429
5A.E.4	Payment of connection charges	431
Part F	Formation and integration of connection contracts	432
Division 1	Offer and acceptance – basic and standard connection services.....	432
5A.F.1	Distribution Network Service Provider's response to application	432
5A.F.2	Acceptance of connection offer	432
5A.F.3	Offer and acceptance—application for expedited connection.....	432
Division 2	Offer and acceptance – negotiated connection.....	433
5A.F.4	Negotiated connection offer	433
Division 3	Formation of contract.....	434
5A.F.5	Acceptance of connection offer	434
Division 4	Contractual performance.....	434
5A.F.6	Carrying out connection work	434
5A.F.7	Energisation where new connection	434
Part G	Dispute resolution between Distribution Network Service Providers and customers	435
5A.G.1	Relevant disputes.....	435
5A.G.2	Determination of dispute	435
5A.G.3	Termination of proceedings.....	435
Schedule 5A.1	Minimum content requirements for connection contract.....	436

Part A **Connection offer not involving embedded generation436**

Part B **Connection offer involving embedded generation437**

6. **Economic Regulation of Distribution Services441**

Part A **Introduction.....441**

6.0 **Operation of Chapter 6 in this jurisdiction441**

6.0A **Interpretation441**

6.1 **Introduction to Chapter 6442**

6.1.1 AER's regulatory responsibility 442

6.1.1A [Deleted] 442

6.1.2 Structure of this Chapter 442

6.1.3 Access to direct control services and negotiated distribution
 services 443

6.1.4 [Deleted] 443

Part B **Classification of Distribution Services and Distribution
 Determinations444**

6.2 **Classification444**

6.2.1 Classification of distribution services 444

6.2.2 Classification of direct control services as standard control services
 or alternative control services 444

6.2.3 Term for which classification operates 445

6.2.3A Distribution Service Classification Guidelines 445

6.2.4 Duty of AER to make distribution determinations 446

6.2.5 Control mechanisms for direct control services 446

6.2.6 Basis of control mechanisms for direct control services 448

6.2.7 Negotiated distribution services 448

6.2.8 Guidelines 448

Part C **Building Block Determinations for standard control services449**

6.3 **Building block determinations.....449**

6.3.1 Introduction..... 449

6.3.2 Contents of building block determination 449

6.4 **Post-tax revenue model450**

6.4.1 Preparation, publication and amendment of post-tax revenue model 450

6.4.2 Contents of post-tax revenue model 450

6.4.3 Building block approach 450

6.4.4 Shared assets 452

6.4.5 Expenditure Forecast Assessment Guidelines 454

6.4A **Capital expenditure incentive mechanisms454**

6.4B **Asset exemptions455**

6.4B.1 Asset exemption decisions and Asset Exemption Guidelines 455

6.4B.2 Exemption applications 456

6.5 **Matters relevant to the making of building block
 determinations.....457**

6.5.1 Regulatory asset base 457

6.5.2	Return on capital.....	458
6.5.3	Estimated cost of corporate income tax.....	458
6.5.4	[Deleted].....	458
6.5.5	Depreciation.....	458
6.5.6	Forecast operating expenditure.....	459
6.5.7	Forecast capital expenditure.....	461
6.5.8	Efficiency benefit sharing scheme.....	466
6.5.8A	Capital expenditure sharing scheme.....	467
6.5.9	The X factor.....	468
6.5.10	Pass through events.....	469
6.6	Adjustments after making of building block determination.	469
6.6.1	Cost pass through.....	469
6.6.1AA	Cost pass through – deemed determinations.....	476
6.6.1AB	Cost pass through – NT events.....	477
6.6.1A	Reporting on jurisdictional schemes.....	482
6.6.2	Service target performance incentive scheme.....	483
6.6.3	Demand management incentive scheme.....	484
6.6.3A	Demand management innovation allowance mechanism.....	485
6.6.4	Small-scale incentive scheme.....	486
6.6.5	Reopening of distribution determination for capital expenditure.....	488
6.6A	Contingent Projects	491
6.6A.1	Acceptance of a contingent project in a distribution determination.....	491
6.6A.2	Amendment of distribution determination for contingent project.....	492
Part D	Negotiated distribution services	497
6.7	Negotiated distribution services	497
6.7.1	Principles relating to access to negotiated distribution services.....	497
6.7.2	Determination of terms and conditions of access for negotiated distribution services.....	499
6.7.3	Negotiating framework determination.....	500
6.7.4	Negotiated Distribution Service Criteria determination.....	500
6.7.5	Preparation of and requirements for negotiating framework for negotiated distribution services.....	500
6.7.6	Confidential information.....	502
Part DA	Connection policies	502
6.7A	Connection policy requirements.....	502
6.7A.1	Preparation of, and requirements for, connection policy.....	503
Part E	Regulatory proposal and proposed tariff structure statement.....	503
6.8	Regulatory proposal and proposed tariff structure statement.....	503
6.8.1	AER's framework and approach paper.....	503
6.8.1A	Notification of approach to forecasting expenditure.....	506
6.8.2	Submission of regulatory proposal, tariff structure statement and exemption application.....	506
6.9	Preliminary examination and consultation	509
6.9.1	Preliminary examination.....	509
6.9.2	Resubmission of proposal.....	509
6.9.2A	Confidential information.....	509

6.9.3	Consultation.....	510
6.10	Draft distribution determination and further consultation.....	511
6.10.1	Making of draft distribution determination	511
6.10.2	Publication of draft determination and consultation.....	511
6.10.3	Submission of revised proposal	512
6.10.4	Submissions on specified matters	513
6.11	Distribution determination	513
6.11.1	Making of distribution determination	513
6.11.1A	Out of scope revised regulatory proposal or late submissions	514
6.11.2	Notice of distribution determination.....	514
6.11.3	Commencement of distribution determination	515
6.12	Requirements relating to draft and final distribution determinations.....	515
6.12.1	Constituent decisions	515
6.12.2	Reasons for decisions	518
6.12.3	Extent of AER's discretion in making distribution determinations	519
6.13	Revocation and substitution of distribution determination for wrong information or error	520
6.14	Miscellaneous	521
6.14A	Distribution Confidentiality Guidelines	521
Part F	Cost Allocation	522
6.15	Cost allocation	522
6.15.1	Duty to comply with Cost Allocation Method	522
6.15.2	Cost Allocation Principles	522
6.15.3	Cost Allocation Guidelines.....	523
6.15.4	Cost Allocation Method.....	524
Part G	Distribution consultation procedures	525
6.16	Distribution consultation procedures	525
Part H	Ring-Fencing Arrangements for Distribution Network Service Providers.....	526
6.17	Distribution Ring-Fencing Guidelines	526
6.17.1	Compliance with Distribution Ring-Fencing Guidelines	526
6.17.1B	Application of Distribution Ring-Fencing Guidelines in this jurisdiction	527
6.17.2	Development of Distribution Ring-Fencing Guidelines.....	527
Part I	Distribution Pricing Rules	528
6.18	Distribution Pricing Rules	528
6.18.1	Application of this Part.....	528
6.18.1A	Tariff structure statement.....	528
6.18.1B	Amending a tariff structure statement with the AER's approval	529
6.18.1C	Sub-threshold tariffs	531
6.18.2	Pricing proposals	531
6.18.3	Tariff classes	533

6.18.4	Principles governing assignment or re-assignment of retail customers to tariff classes and assessment and review of basis of charging	533
6.18.5	Pricing principles	534
6.18.6	Side constraints on tariffs for standard control services	536
6.18.7	Recovery of designated pricing proposal charges	537
6.18.7A	Recovery of jurisdictional scheme amounts	537
6.18.8	Approval of pricing proposal	541
6.18.9	Publication of information about tariffs and tariff classes.....	542
6.19	Data Required for Distribution Service Pricing	542
6.19.1	Forecast use of networks by Distribution Customers and Embedded Generators	542
6.19.2	Confidentiality of distribution network pricing information	542
Part J	Billing and Settlements	543
6.20	Billing and Settlements Process	543
6.20.1	Billing for distribution services	543
6.20.2	Minimum information to be provided in distribution network service bills	545
6.20.3	Settlement between Distribution Network Service Providers	545
6.20.4	Obligation to pay	545
Part K	Prudential requirements, capital contributions and prepayments	545
6.21	Distribution Network Service Provider Prudential Requirements	545
6.21.1	Prudential requirements for distribution network service.....	546
6.21.2	Capital contributions, prepayments and financial guarantees	546
6.21.3	Treatment of past prepayments and capital contributions	547
Part L	Dispute resolution	547
6.22	Dispute Resolution	547
6.22.1	Dispute Resolution by the AER.....	547
6.22.2	Determination of dispute	547
6.22.3	Termination of access dispute without access determination.....	549
Part M	Separate disclosure of transmission and distribution charges	549
6.23	Separate disclosure of transmission and distribution charges	549
Part N	Dual Function Assets	550
6.24	Dual Function Assets	550
6.24.1	Application of this Part.....	550
6.24.2	Dual Function Assets	550
6.25	AER determination of applicable pricing regime for Dual Function Assets	551
6.26	Division of Distribution Network Service Provider's revenue	552
Part O	Network service provider performance reports	553
6.27	Annual Benchmarking Report	553

- 6.27A Annual DER network service provider performance report553**
- Part P Distribution Reliability Measures Guidelines554**
- 6.28 Distribution Reliability Measures Guidelines554
- Schedule 6.1 Contents of building block proposals.....554**
- S6.1.1 Information and matters relating to capital expenditure554
- S6.1.2 Information and matters relating to operating expenditure556
- S6.1.3 Additional information and matters558
- Schedule 6.2 Regulatory Asset Base560**
- S6.2.1 Establishment of opening regulatory asset base for a regulatory control period.....560
- S6.2.2 Prudence and efficiency of capital expenditure.....565
- S6.2.2A Reduction for inefficient past capital expenditure.....565
- S6.2.2B Depreciation.....567
- S6.2.3 Roll forward of regulatory asset base within the same regulatory control period.....568
- S6.2.3A Establishment of opening regulatory asset base for distribution system in this jurisdiction for 1st regulatory control period.....569

- 6A. Economic Regulation of Transmission Services.....575**

- 6B. Retail Markets579**

- 7. Metering583**

- 7A. Metering587**
- Part A Introduction.....587**
- 7A.1 Introduction to the Metering Chapter587**
- 7A.1.1 Purpose and application587
- 7A.1.2 Contents587
- 7A.1.3 Definitions587
- 7A.1.4 Inconsistency588
- Part B Roles and Responsibilities588**
- 7A.2 Role and responsibility of financially responsible participant588**
- 7A.3 Role and responsibility of Metering Coordinator.....589**
- 7A.3.1 Responsibility of the Metering Coordinator589
- 7A.3.2 Role of the Metering Coordinator.....590
- 7A.4 Qualification and requirements of Metering Providers and Metering Data Providers.....592**
- 7A.4.1 Qualification and requirements of Metering Providers592
- 7A.4.2 Qualification and requirements of Metering Data Providers.....592
- Part C Appointment of Metering Coordinator593**
- 7A.5 Appointment of Metering Coordinator593**
- Part D Metering installation594**

7A.6	Metering installation arrangement	594
7A.6.1	Metering installation requirements	594
7A.6.2	Metering installation components.....	594
7A.6.3	Emergency management.....	597
7A.6.4	Network devices	597
7A.6.5	Metering point	597
7A.6.6	Metering installation types and accuracy.....	598
7A.6.7	Functionality requirements for type 1, 2, 3 and 4 metering installations	598
7A.6.8	Meter churn.....	598
7A.6.9	Metering installation malfunctions	599
7A.6.10	Timeframes for meters to be installed – new connection	600
7A.6.11	Timeframes for meters to be installed – where a connection service is not required	600
7A.6.12	Timeframes for meters to be installed – where a connection alteration is required	601
7A.6.13	Changing a metering installation	602
7A.6.14	Prepayment metering	603
7A.7	Maintenance, inspection, testing and auditing of metering installations.....	603
7A.7.1	Maintenance.....	603
7A.7.2	Responsibility for inspection and testing.....	604
7A.7.3	Actions in event of non-compliance	605
7A.7.4	Audits of information held in metering installations	606
7A.7.5	Appointment of external auditor.....	606
7A.7.6	Errors found in metering tests, inspections or audits.....	607
7A.7.7	Retention of test records and documents	607
Part E	Metering data	608
7A.8	Metering data services.....	608
7A.8.1	Metering data services	608
7A.8.2	Collection of energy data and estimation of metering data	609
7A.8.3	Data management and storage	610
7A.8.4	Provision of metering data to certain persons.....	611
7A.8.5	Use of check metering data.....	612
7A.8.6	Periodic energy metering.....	612
7A.8.7	Verification of metering data Metering installations other than type 7 metering installations.....	613
7A.8.8	Time settings.....	614
7A.8.9	Metering data performance standards.....	614
7A.9	Metering data and data base	616
7A.9.1	Metering database	616
7A.9.2	Data validation, substitution and estimation.....	617
7A.9.3	Changes to energy data or to metering data.....	617
7A.10	Register of metering information	618
7A.10.1	Metering register.....	618
7A.10.2	Metering installation registration process.....	618
7A.10.3	Metering register discrepancy.....	618
7A.11	Disclosure of information	619

7A.11.1 Provision of data to retailers619

7A.12 Metering data provision to retail customers620

Part F Security of metering installations and energy data620

7A.13 Security of metering installations, energy data and metering data.....620

7A.13.1 Confidentiality of data620

7A.13.2 Security of metering installations620

7A.13.3 Security controls for energy data621

7A.13.4 Additional security controls for type 4 metering installations.....622

7A.13.5 Access to data623

Schedule 7A.1 Metering register624

S7A.1.1 General.....624

S7A.1.2 Metering register information.....625

S7A.1.3 Communication guideline.....625

Schedule 7A.2 Metering provider.....625

Schedule 7A.3 Metering data provider625

Schedule 7A.4 Types and accuracy of metering installations625

S7A.4.1 General requirements.....625

S7A.4.2 Accuracy requirements for metering installations626

S7A.4.3 Check metering.....630

S7A.4.4 Resolution and accuracy of displayed or captured data.....631

S7A.4.5 General design standards632

S7A.4.5.1 Design requirements632

S7A.4.5.2 Design guidelines.....632

Schedule 7A.5 Metering functionality requirements for type 1, 2, 3 and 4 metering requirements633

S7A.5.1 Introduction.....633

S7A.5.1.1 Purpose633

S7A.5.1.2 Definitions633

S7A.5.2 Functionality Requirements for Meters in Type 1, 2, and 3 metering installations633

S7A.5.2.1 Application633

S7A.5.2.2 Applicable meter configurations.....634

S7A.5.2.3 Metrology634

S7A.5.3 Functionality Requirements for Meters in Type 4 metering installations634

S7A.5.3.1 Application634

S7A.5.3.2 Applicable meter configurations.....634

S7A.5.3.3 Metrology635

S7A.5.3.4 Remote and local reading of meters635

S7A.5.3.5 Supply disconnection and reconnection636

S7A.5.3.5.1 General requirements.....636

S7A.5.3.5.2 Disconnection636

S7A.5.3.5.3 Reconnection636

S7A.5.3.6 Time clock synchronisation.....637

S7A.5.3.7 Quality of Supply and other event recording.....637

S7A.5.3.8 Tamper detection638

S7A.5.3.9	Communications and data security	638
S7A.5.3.10	Remote firmware upgrades	638
S7A.5.3.11	Remote arming	638
Schedule 7A.6	Inspection and testing requirements	638
S7A.6.1	General	638
S7A.6.2	Technical guidelines	640
Schedule 7A.7	Metrology procedure	641
Part A	.....	641
S7A.7.1	Introduction	641
S7A.7.1.1	General	641
S7A.7.1.2	Definitions	641
S7A.7.1.3	Relevant retailer	642
Part B	.....	642
S7A.7.2	Purpose and scope	642
S7A.7.2.1	Purpose	642
S7A.7.2.2	Scope	643
S7A.7.3	Metering provision	643
S7A.7.3.1	Responsibility for metering provision	643
S7A.7.3.2	Metering installation components	643
S7A.7.3.3	Use of optical ports and pulse outputs	644
S7A.7.3.4	Load control equipment	645
S7A.7.3.5	Data storage requirements for meters	645
S7A.7.3.6	Metering installation clock	645
S7A.7.3.7	Interval meters	645
S7A.7.3.8	Alarm settings	646
S7A.7.3.9	Summation metering	646
S7A.7.3.10	.....	646
S7A.7.3.11	Routine testing and inspection of metering installations	646
S7A.7.3.12	Requests for testing type 1 – 6 metering installations	647
S7A.7.4	Installation of meters and de-commissioning	648
S7A.7.4.1	General installation requirements	648
S7A.7.4.2	Type 4A, 5 and 6 metering installations	648
S7A.7.4.3	Preliminary de-commissioning and removal of metering equipment requirements	648
S7A.7.4.4	.....	648
S7A.7.5	.....	649
S7A.7.6	Responsibility for metering data services	649
S7A.7.6.1	Metering data storage	649
S7A.7.6.2	Verification of metering data for type 4, 4A, 5, 6 and 7 installations	649
S7A.7.6.3	Metering installation type 7 – sample testing	650
S7A.7.6.4	Request for text of calculated metering data	651
S7A.7.6.5	NTESMO's metering data substitution obligations	652
Part C	.....	652
S7A.7.7	Purpose and scope	652
S7A.7.7.1	Purpose	652
S7A.7.7.2	Scope	652
S7A.7.8	Principles for validation, substitution and estimation	652
S7A.7.8.1	General validation, substitution and estimation requirements	652

S7A.7.8.2	Substitution requirements	652
S7A.7.8.3	Estimation requirement.....	653
S7A.7.8.4	Metering data quality flags	654
S7A.7.8.5	Final substitution	654
S7A.7.9	Substitution for acquisition of metering data from remotely read metering installations.....	655
S7A.7.9.1	Application of S7A.7.9	655
S7A.7.9.2	Substitution rules	655
S7A.7.9.3	Substitution types.....	657
S7A.7.10	Substitution and estimation for manually read interval metering installations	660
S7A.7.10.1	Application of S7A.7.10	660
S7A.7.10.2	Substitution and estimation rules	660
S7A.7.10.3	Substitution and estimation types	661
S7A.7.11	Substitution and estimation for metering installations with accumulated metering data	663
S7A.7.11.1	Substitution and estimation rules	663
S7A.7.11.2	Substitution and estimation types	665
S7A.7.12	Substitution and estimation for calculated metering data	666
S7A.7.12.1	Substitution rules	666
S7A.7.12.2	Substitution and estimation types	667
S7A.7.13	Data validation requirements	668
S7A.7.13.1	Validation requirements for all metering installations	668
S7A.7.13.2	Validation of interval metering data alarms	668
S7A.7.13.3	Validation within the meter reading process for manually read metering installations.....	669
S7A.7.13.4	Validation as part of the registration process.....	669
S7A.7.13.5	Validation of metering data	670
S7A.7.14	Determination of metering data for unmetered loads	676
S7A.7.14.1	Load table	676
S7A.7.14.2	Controlled unmetered devices	677
S7A.7.14.3	Uncontrolled unmetered devices	681
Schedule 7A.8	Service level procedures	682
Part A	Introduction.....	682
S7A.8.1	Introduction.....	682
S7A.8.1.1	Purpose and scope.....	682
S7A.8.1.2	Definitions	682
Part B	Metering provider services	683
S7A.8.2	Introduction.....	683
S7A.8.2.1	Purpose and exclusions.....	683
S7A.8.2.2	Services.....	683
S7A.8.3	General requirements.....	683
S7A.8.3.1	Metering Provider capability and competency	683
S7A.8.3.2	Use of contractors	684
S7A.8.3.3	Insurance.....	684
S7A.8.4	Device management and test equipment	685
S7A.8.4.1	Procurement.....	685
S7A.8.4.2	Storage, handling and transport	685
S7A.8.4.3	Management of test equipment.....	685

S7A.8.4.4	Management of meter programming and authorised software	686
S7A.8.5	Installation and commissioning requirements	686
S7A.8.5.1	General commissioning requirements	686
S7A.8.5.2	Metering data validation requirements	687
S7A.8.6	Metering installation maintenance	688
S7A.8.6.1	Test plans	688
S7A.8.6.2	Management of metering installation malfunctions	688
S7A.8.6.3	Telecommunications	688
S7A.8.6.4	Non-conforming test results or calibrations	689
S7A.8.7	Systems and administration	689
S7A.8.7.1	Register of metering installations	689
S7A.8.7.2	Disaster recovery	690
S7A.8.7.3	Audits undertaken by the Utilities Commission	690
Part C	Metering Data Provider services	690
S7A.8.8	Introduction	690
S7A.8.8.1	Purpose	690
S7A.8.8.2	Obligations	691
S7A.8.9	Service requirements	693
S7A.8.9.1	System requirements	693
S7A.8.9.2	Metering data services database	694
S7A.8.9.3	Exception reports	694
S7A.8.9.4	Collection process requirements	694
S7A.8.9.5	Specific collection process requirements for remotely read metering installations	695
S7A.8.9.6	Specific collection process requirements for manually read metering installations	695
S7A.8.9.7	Metering data processing requirements	696
S7A.8.9.8	Specific metering data processing requirements for type 1, 2, 3 and 4 metering installations	697
S7A.8.9.9	Specific metering data processing requirements for type 7 metering installations	697
S7A.8.9.10	Specific metering data estimation requirements for manually read and type 7 metering installations	698
S7A.8.9.11	Delivery performance requirements for metering data	698
S7A.8.10	Data management following the alteration of type of metering installation at a connection point	700
S7A.8.10.1	Meter churn scenarios	700
S7A.8.10.2	Scenario 1	701
S7A.8.10.3	Scenario 2	701
S7A.8.10.4	Scenario 3	701
S7A.8.10.5	Scenario 4	701
S7A.8.11	System architecture and administration	702
S7A.8.11.1	Metering data archival and recovery	702
S7A.8.11.2	Data backup	703
S7A.8.11.3	Disaster recovery	703
S7A.8.11.4	System administration and data management	704
S7A.8.12	Quality control	704
S7A.8.12.1	Audits	704
S7A.8.12.2	Corrective action	705
S7A.8.13.1	Administration	705

S7A.8.13.2	Quality systems.....	706
8.	Administrative Functions	709
Part A	Introductory	709
8.1	Administrative functions.....	709
8.1.1	[Deleted]	709
8.1.2	[Deleted]	709
8.1.3	Structure of this Chapter	709
Part B	Disputes.....	709
Part C	Registered Participants' confidentiality obligations.....	710
8.6	Confidentiality.....	710
8.6.1	Confidentiality	710
8.6.1A	Application	711
8.6.2	Exceptions.....	711
8.6.3	Conditions.....	712
8.6.4	[Deleted]	713
8.6.5	Indemnity to AER, AEMC and AEMO.....	713
8.6.6	AEMO information.....	713
8.6.7	Information on Rules Bodies	713
Part D	Monitoring and reporting	713
8.7	Monitoring and Reporting	713
8.7.1	Monitoring	713
8.7.2	Reporting requirements and monitoring standards for Registered Participants	714
8.7.3	Consultation required for making general regulatory information order (Section 28H of the NEL)	716
8.7.4	Preparation of network service provider performance report (Section 28V of the NEL).....	717
8.7.5	[Deleted]	717
8.7.6	Recovery of reporting costs	717
Part E	Reliability panel	718
8.8	Reliability Panel.....	718
8.8.1	Purpose of Reliability Panel	718
8.8.2	Constitution of the Reliability Panel.....	719
8.8.3	Reliability Panel review process.....	721
8.8.4	Determination of protected events.....	724
Part F	Rules consultation procedures.....	725
8.9	Rules Consultation Procedures	725
Part G	Consumer advocacy funding	727
8.10	Consumer advocacy funding obligation	728
Part H	Augmentations	728
8.11	Augmentations	728
8.11.1	Application	728

8.11.2	Object.....	728
8.11.3	Definitions	729
8.11.4	Planning criteria.....	729
8.11.5	Construction of augmentation that is not a contestable augmentation.....	730
8.11.6	Contestable augmentations	730
8.11.7	Construction and operation of contestable augmentation.....	731
8.11.8	Funded augmentations that are not subject to the tender process.....	732
8.11.9	Contractual requirements and principles	733
8.11.10	Annual planning review.....	733
Schedule 8.11	Principles to be reflected in agreements relating to contestable augmentations	734
S8.11.1	Risk allocation	734
S8.11.2	Minimum requirements for agreements relating to contestable augmentation.....	735
S8.11.3	Matters to be dealt with in relevant agreements	735
Part I	Values of customer reliability	736
8.12	Development of methodology and publication of values of customer reliability	736
8A.	Participant Derogations.....	741
Part 1	Derogations Granted to TransGrid	741
8A.1	[Deleted].....	741
Part 2	Derogations Granted to EnergyAustralia	741
8A.2	[Deleted].....	741
8A.2A	[Deleted].....	741
Part 3	[Deleted].....	741
Part 4	[Deleted].....	741
Part 5	[Deleted].....	741
Part 6	Derogations Granted to Victorian Market Participants	741
Part 7	[Deleted].....	742
Part 8	[Deleted].....	742
Part 9	[Deleted].....	742
Part 10	[Deleted].....	742
Part 11	[Deleted].....	742
Part 12	[Deleted].....	742
Part 13	Derogation granted to Aurora Energy (Tamar Valley) Pty Ltd	742
8A.13	[Deleted].....	742
Part 14	Derogations granted to Ausgrid, Endeavour Energy and Essential Energy.....	742

8A.14	Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period	742
8A.14.1	Definitions	742
8A.14.2	Expiry date.....	746
8A.14.3	Application of Rule 8A.14.....	746
8A.14.4	Recovery of revenue across the current regulatory control period and subsequent regulatory control period.....	747
8A.14.5	Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required.....	748
8A.14.6	Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required.....	749
8A.14.7	Requirements for adjustment determination.....	750
8A.14.8	Application of Chapter 6 under participant derogation	751
Part 15	Derogations granted to ActewAGL.....	752
8A.15	Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period	752
8A.15.1	Definitions	752
8A.15.2	Expiry date.....	756
8A.15.3	Application of Rule 8A.15.....	756
8A.15.4	Recovery of revenue across the current regulatory control period and subsequent regulatory control period.....	756
8A.15.5	Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required.....	758
8A.15.6	Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required.....	759
8A.15.7	Requirements for adjustment determination.....	761
8A.15.8	Application of Chapter 6 under participant derogation	761
9.	Jurisdictional Derogations and Transitional Arrangements	767
9.1	Purpose and Application	767
9.1.1	Purpose	767
9.1.2	Jurisdictional Derogations	767
Part A	Jurisdictional Derogations for Victoria	767
9.2	[Deleted].....	767
9.3	Definitions.....	767
9.3.1	General Definitions.....	767
9.3.2	[Deleted]	768
9.3A	Fault levels.....	768
9.4	Transitional Arrangements for Chapter 2 - Registered Participants, Registration and Cross Border Networks	769
9.4.1	[Deleted]	769
9.4.2	Smelter Trader	769
9.4.3	Smelter Trader: compliance.....	770
9.4.4	Report from AER.....	772
9.4.5	Cross Border Networks.....	772

9.5	Transitional Arrangements for Chapter 3 – Reliability and Emergency Reserve Trader	773
9.5.1	Definition	773
9.5.2	Expiry date	773
9.5.3	Multi-year Victorian contracts – term and volume	773
9.5.4	Multi-year Victorian contracts - reporting	774
9.6	Transitional Arrangements for Chapter 4 - System Security	775
9.6.1	Operating Procedures (clause 4.10.1)	775
9.6.2	Nomenclature Standards (clause 4.12)	775
9.7	Transitional Arrangements for Chapter 5 - Network Connection.....	775
9.7.1	[Deleted]	775
9.7.2	[Deleted]	775
9.7.3	[Deleted]	775
9.7.4	Regulation of Distribution Network Connection	775
9.7.5	[Deleted]	776
9.7.6	[Deleted]	776
9.7.7	[Deleted]	776
9.8	Transitional Arrangements for Chapter 6 - Network Pricing.....	776
9.8.1	[Deleted]	776
9.8.2	[Deleted]	776
9.8.3	[Deleted]	776
9.8.4	Transmission Network Pricing	776
9.8.4A	[Deleted]	778
9.8.4B	[Deleted]	778
9.8.4C	[Deleted]	778
9.8.4D	[Deleted]	778
9.8.4E	[Deleted]	778
9.8.4F	[Deleted]	778
9.8.4G	[Deleted]	778
9.8.5	[Deleted]	778
9.8.6	[Deleted]	778
9.8.7	Distribution network pricing – transitional application of former Chapter 6.....	778
9.8.8	Exclusion of AER's power to aggregate distribution systems and parts of distribution systems	779
9.9	Transitional Arrangements for Chapter 7 - Metering	779
9.9.1	Metering Installations To Which This Schedule Applies	779
9.9.2	[Deleted]	780
9.9.3	[Deleted]	780
9.9.4	[Deleted]	780
9.9.5	[Deleted]	780
9.9.6	[Deleted]	780
9.9.7	[Deleted]	780
9.9.8	[Deleted]	780
9.9.9	Periodic Energy Metering (clause 7.9.3)	780
9.9.10	Use of Alternate Technologies (clause 7.13).....	780
9.9A	[Deleted].....	781

9.9B	[Deleted]	781
9.9C	[Deleted]	781
1.	Interpretation of tables.....	781
2.	Continuing effect.....	781
3.	Subsequent agreement.....	782
4.	[Deleted].....	782
5.	Reactive Power Capability (clause S5.2.5.1 of schedule 5.2).....	782
6.	[Deleted].....	783
7.	[Deleted].....	783
8.	[Deleted].....	783
9.	[Deleted].....	783
10.	[Deleted].....	783
11.	[Deleted].....	783
12.	[Deleted].....	783
13.	Governor Systems (load control) (clause S5.2.5.11 of schedule 5.2).....	783
14.	[Deleted].....	783
15.	[Deleted].....	783
16.	Excitation Control System (clause S5.2.5.13 of schedule 5.2).....	783
Part B	Jurisdictional Derogations for New South Wales	784
9.10	[Deleted]	784
9.11	Definitions	784
9.11.1	Definitions used in this Part B.....	784
9.12	Transitional Arrangements for Chapter 2 - Generators, Registered Participants, Registration and Cross Border Networks	785
9.12.1	[Deleted].....	785
9.12.2	Customers.....	785
9.12.3	Power Traders.....	785
9.12.4	Cross Border Networks.....	788
9.13	[Deleted]	789
9.14	Transitional Arrangements for Chapter 4 - System Security	789
9.14.1	Power System Operating Procedures.....	789
9.15	NSW contestable services for Chapter 5A	789
9.15.1	Definitions.....	789
9.15.2	Chapter 5A not to apply to certain contestable services.....	789
9.16	Transitional Arrangements for Chapter 6 - Network Pricing	789
9.16.1	NSW contestable services.....	789
9.16.2	[Deleted].....	789
9.16.3	Jurisdictional Regulator.....	789
9.16.4	Deemed Regulated Interconnector.....	790
9.16.5	[Deleted].....	790
9.17	Transitional Arrangements for Chapter 7 - Metering	790
9.17.1	Extent of Derogations.....	790
9.17.2	Initial Registration (clause 7.1.2).....	790
9.17.3	Amendments to Schedule 9G1.....	790

9.17.4 Compliance with AS/NZ ISO 9002 (clause S7.4.3(f) of schedule 7.4)791

9.17A [Deleted].....791

9.18 [Deleted].....791

Part C Jurisdictional Derogations for the Australian Capital Territory.....791

9.19 [Deleted].....791

9.20 Definitions and Transitional Arrangements for Cross-Border Networks.....791

9.20.1 Definitions791

9.20.2 Cross Border Networks.....791

9.21 [Deleted].....792

9.22 [Deleted].....792

9.23 Transitional Arrangements for Chapter 6 - Network Pricing.....792

9.23.1 [Deleted]792

9.23.2 [Deleted]792

9.23.3 [Deleted].....792

9.23.4 [Deleted]792

9.24 Transitional Arrangements.....792

9.24.1 Chapter 7 - Metering.....792

9.24.2 [Deleted]792

9.24A [Deleted].....792

Part D Jurisdictional Derogations for South Australia792

9.25 Definitions.....792

9.25.1 [Deleted]792

9.25.2 Definitions792

9.26 Transitional Arrangements for Chapter 2 - Registered Participants, Registration And Cross Border Networks.....795

9.26.1 Registration as a Generator.....795

9.26.2 Registration as a Customer796

9.26.3 Cross Border Networks.....796

9.26.4 [Deleted]796

9.26.5 Registration as a Network Service Provider796

9.27 [Deleted].....797

9.28 Transitional Arrangements for Chapter 5 - Network Connection.....797

9.28.1 Application of clause 5.2797

9.28.2 [Deleted]798

9.29 Transitional Arrangements for Chapter 6 - Economic Regulation of Distribution Services798

9.29.1 [Deleted]798

9.29.2 [Deleted]798

9.29.3 [Deleted]798

9.29.4 [Deleted]798

9.29.5 Distribution Network Pricing – South Australia 798

9.29.6 Capital contributions, prepayments and financial guarantees 799

9.29.7 Ring fencing..... 799

9.29A Monitoring and reporting 799

9.30 Transitional Provisions 800

9.30.1 Chapter 7 - Metering..... 800

Part E Jurisdictional Derogations for Queensland..... 800

9.31 [Deleted]..... 800

9.32 Definitions and Interpretation..... 800

9.32.1 Definitions 800

9.32.2 Interpretation..... 803

9.33 Transitional Arrangements for Chapter 1 803

9.33.1 [Deleted] 803

9.34 Transitional Arrangements for Chapter 2 - Registered Participants and Registration..... 803

9.34.1 Application of the Rules in Queensland (clauses 2.2 and 2.5) 803

9.34.2 Stanwell Cross Border Leases (clause 2.2)..... 803

9.34.3 [Deleted] 803

9.34.4 Registration as a Customer (clause 2.3.1) 803

9.34.5 There is no clause 9.34.5 804

9.34.6 Exempted generation agreements (clause 2.2) 804

9.35 [Deleted]..... 808

9.36 [Deleted]..... 808

9.37 Transitional Arrangements for Chapter 5 - Network Connection..... 808

9.37.1 [Deleted] 808

9.37.2 Existing connection and access agreements (clause 5.2)..... 808

9.37.3 [Deleted] 809

9.37.4 [Deleted] 809

9.37.5 Forecasts for connection points to transmission network (clause 5.11.1)..... 809

9.37.6 There is no clause 9.37.6 809

9.37.7 Cross Border Networks..... 809

9.37.8 [Deleted] 810

9.37.9 Credible contingency events (clause S5.1.2.1 of schedule 5.1)..... 810

9.37.10 Reactive power capability (clause S5.2.5.1 of schedule 5.2) 810

9.37.11 [Deleted] 811

9.37.12 Voltage fluctuations (clause S5.1.5 of schedule 5.1)..... 811

9.37.13 [Deleted] 813

9.37.14 [Deleted] 813

9.37.15 [Deleted] 813

9.37.16 [Deleted] 813

9.37.17 [Deleted] 813

9.37.18 [Deleted] 813

9.37.19 Generating unit response to disturbances (clause S5.2.5.3 of schedule 5.2)..... 813

9.37.20	[Deleted]	813
9.37.21	Excitation control system (clause S.5.2.5.13 of schedule 5.2)	813
9.37.22	[Deleted]	814
9.37.23	Annual forecast information for planning purposes (schedule 5.7).....	814
9.38	Transitional Arrangements for Chapter 6 - Network Pricing.....	814
9.38.1	[Deleted]	814
9.38.2	[Deleted]	814
9.38.3	[Deleted]	814
9.38.4	Interconnectors between regions	814
9.38.5	Transmission pricing for exempted generation agreements	814
9.39	Transitional Arrangements for Chapter 7 - Metering	815
9.39.1	Metering installations to which this clause applies	815
9.39.2	[Deleted]	816
9.39.3	[Deleted]	816
9.39.4	[Deleted]	816
9.39.5	[Deleted]	816
9.40	Transitional Arrangements for Chapter 8 - Administration	
	Functions	816
9.40.1	[Deleted]	816
9.40.2	[Deleted]	816
9.40.3	[Deleted]	816
9.41	[Deleted].....	816
Part F	Jurisdictional Derogations for Tasmania	817
9.42	Definitions and interpretation	817
9.42.1	Definitions	817
9.42.2	Interpretation.....	818
9.42.3	National grid, power system and related expressions.....	818
9.43	[Deleted].....	819
9.44	Transitional arrangements for Chapter 2 – Registered Participants and Registration - Customers (clause 2.3.1(e)).....	819
9.45	Tasmanian Region (clause 3.5)	819
9.47	Transitional arrangements for Chapter 5- Network Connection	819
9.47.1	Existing Connection Agreements	819
9.48	Transitional arrangements - Transmission and Distribution Pricing.....	819
9.48.4A	Ring fencing.....	819
9.48.4B	Uniformity of tariffs for small customers	820
9.48.5	Transmission network.....	820
9.48.6	Deemed regulated interconnector	820
Part G	Schedules to Chapter 9.....	820
1.	Introduction.....	820
2.	[Deleted]	820
3.	General Principle	820
4.	[Deleted]	821
5.	Accuracy Requirements.....	821

6.	[Deleted]	821
7.	[Deleted]	821
8.	[Deleted]	821
9.	[Deleted]	821
10.	[Deleted]	821
10.	Glossary.....	825
11.	Savings and Transitional Rules.....	949
Part ZZJ	Demand management incentive scheme	949
11.82	Rules consequential on making of the National Electricity Amendment (Demand management incentive scheme) Rule 2015	949
11.82.1	Definitions	949
11.82.2	AER to develop and publish the demand management incentive scheme and demand management innovation allowance mechanism	949
Part ZZM	Common definitions of distribution reliability measures	949
11.85	Rules consequential on the making of the National Electricity Amendment (Common definitions of distribution reliability measures) Rule 2015	949
11.85.1	Definitions	949
11.85.2	Distribution reliability measures guidelines	950
11.85.3	Amended STPIS	950
11.86.8	Distribution Ring Fencing Guidelines	950
Part ZZU	Rate of Return Guidelines Review	950
11.93	Rules consequential on the making of the National Electricity Amendment (Rate of Return Guidelines Review) Rule 2016	950
11.93.1	Definitions	950
11.93.2	Application of current rate of return guidelines to making of a distribution determination for the subsequent regulatory control period	951
Part ZZV	Demand Response Mechanism and Ancillary Services Unbundling.....	952
11.94	Rules consequential on the making of the National Electricity Amendment (Demand Response Management and Ancillary Services Unbundling) rule 2016.....	952
11.94.1	Definitions	952
11.94.2	Participant fees for Market Ancillary Service Providers	952
Part ZZW	Local Generation Network Credits.....	952
11.95	Rules consequential on the making of the National Electricity Amendment (Local Generation Network Credits) Rule 2016	952
11.95.1	Definitions	952
11.95.2	System limitation template	952
Part ZZY	Emergency Frequency Control Schemes.....	953

11.97	Rules consequent on the making of the National Electricity Amendment (Emergency frequency control schemes) Rule 2017	953
11.97.1	Definitions	953
11.97.2	Interim frequency operating standards for protected events.....	953
11.97.3	First power system frequency risk review	954
11.97.4	AEMO must review existing load shedding procedures	954
11.97.5	Load shedding procedures	954
Part ZZZ	Transmission Connection and Planning Arrangements	955
11.98	Rules consequential on the making of the National Electricity Amendment (Transmission Connection and Planning Arrangements) Rule 2017	955
11.98.1	Definitions	955
11.98.2	Grandfathering of existing dedicated connection assets.....	956
11.98.3	Preparatory steps for registration changes under the Amending Rule.....	956
11.98.4	Participant fees for Dedicated Connection Asset Service Providers	957
11.98.5	Existing Connection Agreements	957
11.98.6	Connection process.....	957
11.98.7	Transmission Annual Planning Report.....	958
11.98.8	Preservation for adoptive jurisdictions	958
Part ZZZA	Replacement expenditure planning arrangements	958
11.99	Rules consequential on the making of the National Electricity Amendment (Replacement expenditure planning arrangements) Rule 2017	958
11.99.1	Definitions	958
11.99.3	Transitional arrangements for affected DNSPs	959
11.99.4	Amendments to RIT documentation.....	960
11.99.5	Transitional arrangements relating to excluded projects	960
11.99.6	Transitional arrangements relating to Victorian bushfire mitigation projects.....	960
11.99.7	Transitional arrangements relating to review of costs thresholds.....	961
Part ZZZB	Managing the rate of change of power system frequency	961
11.100	Rules consequential on the making of the National Electricity Amendment (Managing the rate of change of power system frequency) Rule 2017	961
11.100.1	Definitions	961
11.100.2	Inertia sub-networks	962
11.100.3	Inertia requirements methodology	962
11.100.4	Inertia requirements	962
11.100.5	NSCAS not to be used to meet an inertia shortfall after 1 July 2019	963
11.100.6	Inertia network services may be used to meet an NSCAS gap declared in the NSCAS transition period.....	963
11.100.7	Inertia network services made available before the commencement date.....	964
Part ZZZC	Managing power system fault levels	964
11.101	Rules consequential on the making of the National Electricity Amendment (Managing power system fault levels) Rule 2017	964

11.101.1	Definitions	964
11.101.2	System strength impact assessment guidelines.....	966
11.101.3	System strength requirements methodology.....	966
11.101.4	System strength requirements.....	966
11.101.5	NSCAS not to be used to meet a fault level shortfall after 1 July 2019	967
11.101.6	System strength services may be used to meet an NSCAS gap declared in the NSCAS transition period.....	967
11.101.7	Withdrawal of a system strength-related NSCAS gap already declared.....	968
11.101.8	System strength services made available before the commencement date.....	968
Part ZZZD	Generating System Model Guidelines.....	968
11.102	Making of Power System Model Guidelines	968
Part ZZZE	Five Minute Settlement	969
11.103	Rules consequential on the making of the National Electricity Amendment (Five Minute Settlement) Rule 2017 and the National Electricity Amendment (Delayed implementation of five minute and global settlement) Rule 2020	969
11.103.1	Definitions	969
11.103.2	Amendments to procedures	969
11.103.3.	Exemption for certain metering installations.....	970
11.103.4	New or replacement meters	971
11.103.5	Metering installations exempt from metering data provision requirements	971
11.103.6	Exemption from meter data storage requirements.....	971
11.103.7	Default offers and bids submitted prior to the commencement date	971
Part ZZZF	Contestability of energy services	971
11.104	Rules consequential on the making of the National Electricity Amendment (Contestability of energy services) Rule 2017	971
11.104.1	Definitions	971
11.104.2	New guidelines	973
11.104.3	Transitional arrangements for application of Distribution Service Classification Guidelines and service classification provisions	973
11.104.4	Transitional arrangements for application of Asset Exemption Guidelines, exemption applications and asset exemption decisions.....	973
11.104.5	Transitional arrangements for adjustment in value of regulatory asset base	975
Part ZZZG	Declaration of lack of reserve conditions.....	975
11.105	Making of lack of reserve declaration guidelines	975
11.105.1	Definitions	975
11.105.2	Making of lack of reserve declaration guidelines.....	975
Part ZZZH	Implementation of demand management incentive scheme	976
11.106	Implementation of demand management incentive scheme	976
11.106.1	Definitions	976
11.106.2	Purpose	976

11.106.3	Early application of revised demand management incentive scheme	976
Part ZZZI	Reinstatement of long notice Reliability and Emergency Reserve Trader.....	978
11.107	Rules consequential on the making of the National Electricity Amendment (Reinstatement of long notice Reliability and Emergency Reserve Trader) Rule 2018.....	978
11.107.1	Definitions	978
11.107.2	New RERT guidelines	978
11.107.3	Amendments to RERT procedures	981
11.107.4	Reserve contracts entered into before the commencement date	982
Part ZZZJ	Register of distributed energy resources	982
11.108	Rules consequential on the making of the National Electricity Amendment (Register of distributed energy resources) Rule 2018	982
11.108.1	Definitions	982
11.108.2	AEMO to develop and publish DER register information guidelines.....	982
11.108.3	NSPs to provide AEMO with existing DER generation information.....	982
Part ZZZK	Generator technical performance standards	982
11.109	Rules consequential on the making of the National Electricity Amendment (Generator technical performance standards) Rule 2018	982
11.109.1	Definitions	982
11.109.2	Application of the Amending Rule to existing connection enquiries.....	983
11.109.3	Application of the Amending Rule to existing applications to connect.....	984
11.109.4	Application of the Amending Rule to existing offers to connect	986
11.109.5	Application of the Amending Rule to Existing Connection Agreements.....	987
Part ZZZL	Generator three year notice of closure	987
11.110	Rules consequential on the making of the National Electricity Amendment (Generator three year notice of closure) Rule 2018.....	987
11.110.1	Definitions	987
11.110.2	AER to develop and publish notice of closure exemption guideline.....	987
11.110.3	Application of Amending Rule to AEMO	988
11.110.4	Application of Amending Rule to Generators	988
Part ZZZM	Participant compensation following market suspension.....	988
11.111	Rules consequential on the making of the National Electricity Amendment (Participant compensation following market suspension) Rule 2018.....	988
11.111.1	Definitions	988
11.111.2	Market suspension compensation methodology and schedule of benchmark values	988
Part ZZZN	Global settlement and market reconciliation	989
11.112	Rules consequential on the making of the National Electricity Amendment (Global settlement and market reconciliation)	

	Rule 2018 and the National Electricity Amendment (Delayed implementation of five minute and global settlement) Rule 2020	989
11.112.1	Definitions	989
11.112.2	Amendments to AEMO procedures.....	989
11.112.3	AEMO to publish report on unaccounted for energy trends.....	990
11.112.4	Continuation of registration for non-market generators	990
11.112.5	Publication of UFE data by AEMO	990
11.112.6	Publication of UFE reporting guidelines	990
Part ZZZO	Metering installation timeframes	990
11.113	Rules consequential on making of the National Electricity Amendment (Metering installation timeframes) Rule 2018	990
11.113.1	Definitions	990
11.113.2	Timeframes for meters to be installed	991
Part ZZZP	Early implementation of ISP priority projects	991
11.114	National Electricity Amendment (Early implementation of ISP priority projects) Rule 2019	991
11.114.1	Definitions	991
11.114.2	Modifications to clause 5.16.6 for ISP VNI and QNI projects.....	992
11.114.3	Modifications to clause 6A.8.2 for ISP projects.....	993
Part ZZZQ	Enhancement to the Reliability and Emergency Reserve Trader	995
11.115	Rules consequential on the making of the National Electricity Amendment (Enhancement to the reliability and emergency reserve trader) Rule 2019.....	995
11.115.1	Definitions	995
11.115.2	New RERT guidelines	996
11.115.3	Amendments to RERT procedures	996
11.115.4	Reserve contracts entered into before the commencement date	996
11.115.5	Clause 3.20.6 (Reporting on RERT by AEMO).....	996
Part ZZZR	Retailer Reliability Obligation.....	997
11.116	Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation) Rule 2019.....	997
11.116.1	Application	997
11.116.2	Reliability Instrument Guidelines.....	997
11.116.3	Forecasting Best Practice Guidelines	997
11.116.4	Reliability Forecast Guidelines.....	998
11.116.5	AER Opt-in Guidelines.....	998
11.116.6	Contracts and Firmness Guidelines	998
11.116.7	Qualifying contracts under interim Contracts and Firmness Guidelines	999
11.116.8	Grandfathering arrangements	999
11.116.9	Reliability Compliance Procedures and Guidelines	1000
11.116.10	MLO Guidelines	1000
11.116.11	Application of Part G, Divisions 2 – 6 (inclusive)	1000
11.116.12	Interim deeming of MLO generators and MLO groups	1001
11.116.13	MLO information template.....	1008
11.116.14	Initial MLO register	1008
11.116.15	Approved MLO products list.....	1008

11.116.16	Designated MLO exchange	1009
11.116.17	Five minute settlement intervals	1009
11.116.18	Review by AEMC.....	1009
Part ZZZS	Transparency of new projects	1009
11.117	Rules consequential on the making of the National Electricity Amendment (Transparency of new projects) Rule 2019.....	1009
11.117.1	Definitions	1009
11.117.2	Generation information page	1010
11.117.3	Generation information guidelines	1010
11.117.4	Provision and use of information.....	1010
Part ZZZT	Demand management incentive scheme and innovation allowance for TNSPs.....	1011
11.118	Rules consequential on the making of the National Electricity Amendment (Demand management incentive scheme and innovation allowance for TNSPs) Rule 2019	1011
11.118.1	Definitions	1011
11.118.2	AER to develop and publish the demand management innovation allowance mechanism.....	1011
Part ZZZU	Application of the regional reference node test to the Reliability and Emergency Reserve Trader	1011
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	1011
11.119.1	Definitions	1011
11.119.2	AEMO intervention event in effect on commencement date	1011
Part ZZZV	Improving Transparency and Extending Duration of MT PASA.....	1012
11.120	Rules consequential on the making of the National Electricity Amendment (Improving transparency and extending duration of MT PASA) Rule 2020.....	1012
11.120.1	AEMO to update spot market operations timetable	1012
Part ZZZW	Victorian jurisdictional derogation – RERT contracting	1012
11.121	Rules consequential on the making of the National Electricity Amendment (Victorian jurisdictional derogation - RERT contracting) Rule 2020	1012
11.121.1	Definitions	1012
11.121.2	Procedures.....	1012
Part ZZZX	Mandatory primary frequency response.....	1012
11.122	Rules consequential on the making of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020	1012
11.122.1	Definitions	1012
11.122.2	Interim Primary Frequency Response Requirements	1013
11.122.3	Action taken prior to commencement.....	1013
Part ZZZY	System restart services, standards and testing.....	1014

11.123	Rules consequential on the making of the National Electricity Amendment (System restart services, standards and testing) Rule 2020	1014
11.123.1	Definitions	1014
11.123.2	SRAS Guideline.....	1014
11.123.3	System restart standard	1014
11.123.4	Communication protocols.....	1014
11.123.5	System restart tests	1015
Part ZZZZ	Introduction of metering coordinator planned interruptions	1015
11.124	Rules consequential on the making of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020	1015
11.124.1	Definitions	1015
11.124.2	Amendments of the metrology procedure	1015
11.124.3	Market Settlement and Transfer Solutions Procedures	1016
11.124.4	Requirements of the metrology procedure	1016
Part ZZZZA	Wholesale demand response	1016
11.125	Rules consequential on the making of the National Electricity Amendment (Wholesale demand response mechanism) Rule 2020	1016
11.125.1	Definitions	1016
11.125.2	Wholesale demand response guidelines	1017
11.125.3	Baseline methodologies	1018
11.125.4	Wholesale demand response participation guidelines	1018
11.125.5	Extension of time for registration and aggregation	1018
11.125.6	Amendments to AEMO, AER and AEMC documents	1018
11.125.7	Amendments to the demand side participation information guidelines.....	1019
11.125.8	Amendment to RERT guidelines.....	1019
11.125.9	Renaming of Market Ancillary Service Providers.....	1020
11.125.10	Wholesale demand response annual reporting.....	1020
Part ZZZZB	Integrated System Planning Rules	1020
11.126	Rules consequential on the making of the National Electricity Amendment (Integrated System Planning) Rule 2020	1020
11.126.1	Definitions	1020
11.126.2	2020 Integrated System Plan	1021
11.126.3	Existing actionable ISP projects	1021
11.126.4	Existing actionable ISP projects at the clause 5.16.6 stage	1021
11.126.5	Existing actionable ISP projects prior to the clause 5.16.6 stage	1022
11.126.6	Existing RIT-T proponent has published a PSCR but not a PADR	1022
11.126.7	Cost Benefit Analysis Guidelines	1022
11.126.8	Forecasting Best Practice Guidelines	1023
11.126.9	Methodologies and reports	1023
11.126.10	AEMC review of ISP framework	1023
Part ZZZZC	Deferral of network charges	1024
11.127	Transitional arrangements made by the National Electricity Amendment (Deferral of network charges) Rule 2020 No. 11.....	1024

11.127.1	Definitions	1024
11.127.2	Deferral of payment of network charges	1024
11.127.3	Deferral of payment of charges for prescribed transmission services	1026
11.127.4	AER reporting.....	1026
11.127.5	Application of this Part.....	1027
Part ZZZZD	Interim reliability measure	1027
11.128	Rules consequential on the making of the National Electricity Amendment (Interim reliability measure) Rule 2020	1027
11.128.1	Definitions	1027
11.128.2	Expiry date.....	1028
11.128.3	Application of rule 3.20	1028
11.128.4	Reserve contracts for interim reliability reserves	1028
11.128.5	Interim reliability reserves – reporting	1030
11.128.6	AEMO exercise of RERT	1030
11.128.7	RERT guidelines.....	1030
11.128.8	RERT procedures.....	1031
11.128.9	Reliability standard implementation guidelines	1031
11.128.10	AEMO preparatory activities.....	1031
11.128.11	Reserve contracts entered into before the commencement date	1032
11.128.12	Review by the AEMC.....	1032
Part ZZZZE	Removal of intervention hierarchy	1033
11.129	Rules consequential on making of the National Electricity Amendment (Removal of intervention hierarchy) Rule 2020.....	1033
11.129.1	Definitions	1033
11.129.2	Procedures.....	1033
Part ZZZZF	Reallocation of National Transmission Planner costs	1034
11.130	Rule consequential on the making of the National Electricity Amendment (Reallocation of National Transmission Planner costs) Rule 2020.....	1034
11.130.1	Allocation of NTP costs.....	1034
Part ZZZZG	Transparency of unserved energy calculation	1035
11.131	Rules consequential on the making of the National Electricity Amendment (Transparency of unserved energy calculation) Rule 2020 No. 16	1035
11.131.1	<i>AEMO to update the reliability standard implementation guidelines</i>	<i>1035</i>
Part ZZZZH	Retailer Reliability Obligation trigger	1035
11.132	Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation trigger) Rule 2020	1035
11.132.1	Definitions	1035
11.132.2	Reliability standard	1035
11.132.3	AEMO request for a T-3 reliability instrument	1036
11.132.4	When a decision by the AER must be made.....	1036
11.132.5	Reliability Forecast Guidelines.....	1036
11.132.6	AEMO preparatory activities.....	1036
11.132.7	AER preparatory activities	1036

Part ZZZZI	Compensation following directions for services other than energy and market ancillary services	1036
11.133	Rules consequential on the making of the National Electricity Amendment (Compensation following directions for services other than energy and market ancillary services) Rule 2020	1036
11.133.1	Definitions	1036
11.133.2	Compensation process in effect on commencement date	1037
11.133.3	Direction in effect on commencement date	1037
Part ZZZZJ	Prudent discounts in an adoptive jurisdiction	1037
11.134	Rules consequential on the making of the National Electricity Amendment (Prudent discounts in an adoptive jurisdiction) Rule 2020 No. 19	1037
11.134.1	Definitions	1037
11.134.2	Prudent discount application before commencement date	1038
Part ZZZZK	Technical standards for Distributed Energy Resources	1038
11.135	Rules consequential on the making of the National Electricity Amendment (Technical standards for Distributed Energy Resources) Rule 2021 No. 1	1038
11.135.1	Definitions	1038
11.135.2	Application of the Amending Rule to existing connection applications	1038
11.135.3	Application of the Amending Rule to existing offers	1039
11.135.4	Application of the Amending Rule to existing connection contracts	1039
Part ZZZZL	Semi-scheduled generator dispatch obligations	1039
11.136	Rules consequential on the making of the National Electricity Amendment (Semi-scheduled generator dispatch obligations) Rule 2021	1039
11.136.1	AEMO to update power system operating procedure	1039
Part ZZZZM	Renewable energy zone planning	1039
11.137	Rule consequential on the making of the National Electricity Amendment (Renewable energy zone planning) Rule 2021	1039
11.137.1	Definitions	1039
11.137.2	Cost pass through for renewable energy zone planning	1040
11.137.3	AEMC review of REZ planning rules	1040
Part ZZZZN	Implementing a general power system risk review	1040
11.138	Rules consequential on the making of the National Electricity Amendment (Implementing a general power system risk review) Rule 2021	1040
11.138.1	Definitions	1040
11.138.2	First general power system risk review	1041
11.138.3	Last power system frequency risk review	1041
Part ZZZZO	Connection to dedicated connection assets	1041
11.139	Rules consequential on the making of the National Electricity Amendment (Connection to dedicated connection assets) Rule 2021	1041

11.139.1	Definitions	1041
11.139.2	Transition of existing small dedicated connection assets	1042
11.139.3	Grandfathering of existing large dedicated connection assets	1042
11.139.4	Conversion to a designated network asset	1043
11.139.5	Grandfathering of Existing Connection Agreements	1043
11.139.6	Connection process for large dedicated connection assets	1044
11.139.7	Connection process for small dedicated connection assets	1044
11.139.8	Connection enquiries after effective date	1045
11.139.9	PTNSP obligations with respect to the connection process.....	1045
11.139.10	Preparatory steps for guidelines and procedures under the Amending Rule.....	1046
Part ZZZZP	Fast frequency response market ancillary service.....	1046
11.140	Rules consequential on the making of the National Electricity Amendment (Fast frequency response market ancillary service) Rule 2021	1046
11.140.1	Definitions	1046
11.140.2	Amendments to market ancillary service specification	1046
Part ZZZZQ	Access, pricing and incentive arrangements for distributed energy resources.....	1047
11.141	Rules consequential on the making of the National Electricity Amendment (Access, pricing and incentive arrangements for distributed energy resources) Rule 2021	1047
11.141.1	Definitions	1047
11.141.2	Amendments to AER documents.....	1048
11.141.3	Performance incentive schemes for services for supply from embedded generating units to the distribution network.....	1049
11.141.4	Initial rule 6.27A network service provider performance report.....	1049
11.141.5	Initial Export Tariff Guidelines	1049
11.141.6	Annual benchmarking reports.....	1049
11.141.7	Initial CECV methodology	1049
11.141.8	Sub-threshold tariffs	1049
11.141.9	Retail Market Procedures	1050
11.141.10	Distribution Annual Planning Report	1050
11.141.11	Tariff reassignment restriction for existing DER customers	1050
11.141.12	Export tariffs subject to basic export level	1050
11.141.13	Basic export levels to be specified in tariff structure statements.....	1051
11.141.14	Basic export level guidelines	1052
11.141.15	Static zero export limits	1052
11A.	NT Savings and Transitional Rules	1055
Part A	Savings and transitional rules for Chapter 5	1055
11A.1	Chapter 5 provisions.....	1055
Part B	Savings and transitional rules for Chapter 5A	1055
11A.2	Model standing offers	1055
11A.2.1	Definitions	1055
11A.2.2	Extended meaning of some terms	1056

11A.2.3 Transitional operation of relevant provisions1056
11A.2.4 Exclusions, qualifications and modifications1056
11A.2.5 References.....1057
Part C Savings and transitional rules for Chapter 7A1057
11A.3 Existing metering installations1058
11A.4 Testing metering installations.....1058
11A.5 Metering data services database and related requirements1059
11A.6 Communication guideline1060
11A.7 Timeframes for meters to be installed1060