**National Electricity Rules As in force in the Northern Territory Version 54**

**Historical Information**

This version of the National Electricity Rules As in force in the Northern Territory was current from 9 July 2020 to 5 August 2020.

National Electricity Rules As in force in the Northern Territory

Version 54

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 9 July 2020.

This consolidated version of the NT NER reflects the current version of the National Electricity Rules (version 144) 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. Introduction 3](#_Toc256000000)

[1.1 Preliminary 3](#_Toc256000001)

[1.1.1 References to the Rules 3](#_Toc256000002)

[1.1.2 Italicised expressions 3](#_Toc256000003)

[1.1.3 [Deleted] 3](#_Toc256000004)

[1.2 Background 3](#_Toc256000005)

[1.3 Nomenclature of and references to provisions of a Chapter 3](#_Toc256000006)

[1.3.1 Introduction 3](#_Toc256000007)

[1.3.2 Parts, Divisions and Subdivisions 3](#_Toc256000008)

[1.3.3 Rules, clauses, paragraphs, subparagraphs and other items 4](#_Toc256000009)

[1.4 Effect of renumbering of provisions of the Rules 5](#_Toc256000010)

[1.5 [Deleted] 5](#_Toc256000011)

[1.6 [Deleted] 5](#_Toc256000012)

[1.7 Interpretation 5](#_Toc256000013)

[1.7.1 General 5](#_Toc256000014)

[1.7.1A Inconsistency with National Measurement Act 6](#_Toc256000015)

[1.7.1B Instruments 6](#_Toc256000016)

[1.8 Notices 7](#_Toc256000017)

[1.8.1 Service of notices under the Rules 7](#_Toc256000018)

[1.8.2 Time of service 7](#_Toc256000019)

[1.8.3 Counting of days 8](#_Toc256000020)

[1.8.4 Reference to addressee 8](#_Toc256000021)

[1.9 Retention of Records and Documents 8](#_Toc256000022)

[1.9A NTESMO’s costs in connection with these Rules 8](#_Toc256000023)

[1.10 [Deleted] 8](#_Toc256000024)

[1.11 AEMO Rule Funds 8](#_Toc256000025)

[2. Registered Participants and Registration 13](#_Toc256000026)

[2A. Regional Structures 17](#_Toc256000027)

[3. Market Rules 21](#_Toc256000028)

[4. Power System Security 25](#_Toc256000029)

[4A. Retailer Reliability Obligation 29](#_Toc256000030)

[Part A Introduction 29](#_Toc256000031)

[4A.A Definitions 29](#_Toc256000032)

[4A.A.1 Definitions 29](#_Toc256000033)

[4A.A.2 Forecast reliability gap materiality 32](#_Toc256000034)

[4A.A.3 One-in-two year peak demand forecast 32](#_Toc256000035)

[4A.A.4 Peak demand 32](#_Toc256000036)

[Part B Reliability Forecasts 33](#_Toc256000037)

[4A.B.1 Reliability forecast 33](#_Toc256000038)

[4A.B.2 Reliability forecast components 33](#_Toc256000039)

[4A.B.3 Supporting materials 34](#_Toc256000040)

[4A.B.4 Reliability Forecast Guidelines 34](#_Toc256000041)

[4A.B.5 AER Forecasting Best Practice Guidelines 35](#_Toc256000042)

[Part C Reliability Instruments 36](#_Toc256000043)

[Division 1 AEMO request for a reliability instrument 36](#_Toc256000044)

[4A.C.1 AEMO request for a reliability instrument 36](#_Toc256000045)

[4A.C.2 AEMO request for a T-3 reliability instrument 36](#_Toc256000046)

[4A.C.3 AEMO request for a T-1 reliability instrument 37](#_Toc256000047)

[4A.C.4 Related T-3 reliability instrument 37](#_Toc256000048)

[4A.C.5 Notification of a closed forecast reliability gap at T-1 37](#_Toc256000049)

[4A.C.6 Corrections to a request 38](#_Toc256000050)

[4A.C.7 Withdrawing a request 38](#_Toc256000051)

[Division 2 AER making of a reliability instrument 38](#_Toc256000052)

[4A.C.8 AER making of a reliability instrument 38](#_Toc256000053)

[4A.C.9 When a decision by the AER must be made 38](#_Toc256000054)

[4A.C.10 T-1 reliability instrument components 39](#_Toc256000055)

[4A.C.11 AER decision making criteria 39](#_Toc256000056)

[4A.C.12 Reliability Instrument Guidelines 39](#_Toc256000057)

[Part D Liable Entities 40](#_Toc256000058)

[4A.D.1 Application 40](#_Toc256000059)

[4A.D.2 Liable entities 40](#_Toc256000060)

[4A.D.3 New entrants 41](#_Toc256000061)

[4A.D.4 Application to register as large opt-in customer 41](#_Toc256000062)

[4A.D.5 Application to register as prescribed opt-in customer 42](#_Toc256000063)

[4A.D.6 Thresholds 42](#_Toc256000064)

[4A.D.7 Opt-in cut-off day 43](#_Toc256000065)

[4A.D.8 AER approval of applications 43](#_Toc256000066)

[4A.D.9 AER opt-in register 44](#_Toc256000067)

[4A.D.10 Changes to register 44](#_Toc256000068)

[4A.D.11 AER register taken to be correct 44](#_Toc256000069)

[4A.D.12 AEMO Opt-In Procedures 45](#_Toc256000070)

[4A.D.13 AER Opt-In Guidelines 45](#_Toc256000071)

[Part E Qualifying Contracts and Net Contract Position 46](#_Toc256000072)

[Division 1 Key concepts 46](#_Toc256000073)

[4A.E.1 Qualifying contracts 46](#_Toc256000074)

[4A.E.2 Net contract position 47](#_Toc256000075)

[Division 2 Firmness methodologies 47](#_Toc256000076)

[4A.E.3 Firmness methodology 47](#_Toc256000077)

[4A.E.4 Types of methodologies 48](#_Toc256000078)

[4A.E.5 Approval of a bespoke firmness methodology 48](#_Toc256000079)

[Division 3 Reporting net contract position 49](#_Toc256000080)

[4A.E.6 Reporting requirements 49](#_Toc256000081)

[Division 4 Adjustment of net contract position 50](#_Toc256000082)

[4A.E.7 Adjustment of net contract position 50](#_Toc256000083)

[Division 5 Contracts and Firmness Guidelines 51](#_Toc256000084)

[4A.E.8 Contracts and Firmness Guidelines 51](#_Toc256000085)

[Part F Compliance with the Retailer Reliability Obligation 52](#_Toc256000086)

[Division 1 Application 52](#_Toc256000087)

[4A.F.1 Application 52](#_Toc256000088)

[Division 2 Key concepts 52](#_Toc256000089)

[4A.F.2 Compliance TI 52](#_Toc256000090)

[4A.F.3 Share of one-in-two year peak demand forecast 52](#_Toc256000091)

[Division 3 AEMO notifications to AER 54](#_Toc256000092)

[4A.F.4 AEMO notification of compliance trading intervals 54](#_Toc256000093)

[4A.F.5 AEMO compliance report 54](#_Toc256000094)

[Division 4 AER assessment of compliance 54](#_Toc256000095)

[4A.F.6 Reliability Compliance Procedures and Guidelines 54](#_Toc256000096)

[4A.F.7 AER assessment 55](#_Toc256000097)

[4A.F.8 AER notification to AEMO for PoLR costs 55](#_Toc256000098)

[Division 5 Miscellaneous 56](#_Toc256000099)

[4A.F.9 Demand response information 56](#_Toc256000100)

[4A.F.10 PoLR cost procedures 56](#_Toc256000101)

[Part G Market Liquidity Obligation 56](#_Toc256000102)

[Division 1 Preliminary 56](#_Toc256000103)

[4A.G.1 Overview of Part G 56](#_Toc256000104)

[4A.G.2 Purpose and application 57](#_Toc256000105)

[Division 2 Market Generators and trading right holders 57](#_Toc256000106)

[4A.G.3 Market Generators and generator capacity 57](#_Toc256000107)

[4A.G.4 Trading rights and trading right holders 57](#_Toc256000108)

[Division 3 Trading groups 58](#_Toc256000109)

[4A.G.5 Trading group 58](#_Toc256000110)

[4A.G.6 Controlling entity 58](#_Toc256000111)

[Division 4 Traced capacity and trading group capacity 60](#_Toc256000112)

[4A.G.7 Traced capacity 60](#_Toc256000113)

[4A.G.8 Tracing capacity to trading groups 60](#_Toc256000114)

[4A.G.9 Trading group capacity 61](#_Toc256000115)

[Division 5 MLO generators and MLO groups 61](#_Toc256000116)

[4A.G.10 MLO group 61](#_Toc256000117)

[4A.G.11 MLO generator 61](#_Toc256000118)

[Division 6 Market Generator information 61](#_Toc256000119)

[4A.G.12 MLO register 61](#_Toc256000120)

[4A.G.13 Market Generator information 63](#_Toc256000121)

[4A.G.14 Applications to the AER 64](#_Toc256000122)

[Division 7 Liquidity period 64](#_Toc256000123)

[4A.G.15 Notices prior to a liquidity period 64](#_Toc256000124)

[4A.G.16 Duration of liquidity period 65](#_Toc256000125)

[Division 8 Liquidity obligation 65](#_Toc256000126)

[4A.G.17 Liquidity obligation 65](#_Toc256000127)

[4A.G.18 Performing a liquidity obligation 65](#_Toc256000128)

[4A.G.19 Volume limits 67](#_Toc256000129)

[4A.G.20 Appointment of MLO nominee 68](#_Toc256000130)

[4A.G.21 Exemptions 68](#_Toc256000131)

[Division 9 MLO products and MLO exchange 69](#_Toc256000132)

[4A.G.22 MLO products 69](#_Toc256000133)

[4A.G.23 MLO exchange 70](#_Toc256000134)

[Division 10 Miscellaneous 71](#_Toc256000135)

[4A.G.24 MLO compliance and reporting 71](#_Toc256000136)

[4A.G.25 MLO Guidelines 71](#_Toc256000137)

[Part H Voluntary Book Build 72](#_Toc256000138)

[4A.H.1 Purpose and application 72](#_Toc256000139)

[4A.H.2 Book Build Procedures 72](#_Toc256000140)

[4A.H.3 Commencement of voluntary book build 73](#_Toc256000141)

[4A.H.4 Participation in the voluntary book build 73](#_Toc256000142)

[4A.H.5 Book build fees 74](#_Toc256000143)

[4A.H.6 Reporting 74](#_Toc256000144)

[5. Network Connection Access, Planning and Expansion 77](#_Toc256000145)

[Part A Introduction 77](#_Toc256000146)

[5.1 Introduction to Chapter 5 77](#_Toc256000147)

[5.1.1 Structure of this Chapter 77](#_Toc256000148)

[5.1.2 Overview of Part B and connection and access under the Rules 77](#_Toc256000149)

[5.1.3 Definitions 80](#_Toc256000150)

[Part B Network Connection and Access 81](#_Toc256000151)

[5.1A Introduction to Part B 81](#_Toc256000152)

[5.1A.1 Purpose and Application 81](#_Toc256000153)

[5.1A.2 Principles 83](#_Toc256000154)

[5.1A.3 Dedicated connection asset service providers 83](#_Toc256000155)

[5.2 Obligations 84](#_Toc256000156)

[5.2.1 Obligations of Registered Participants 84](#_Toc256000157)

[5.2.2 Connection agreements 84](#_Toc256000158)

[5.2.3 Obligations of network service providers 85](#_Toc256000159)

[5.2.3A Obligations of Market Network Service Providers 90](#_Toc256000160)

[5.2.4 Obligations of customers 91](#_Toc256000161)

[5.2.5 Obligations of Generators 93](#_Toc256000162)

[5.2.6 Obligations of AEMO 94](#_Toc256000163)

[5.2.6A AEMO review of technical requirements for connection 95](#_Toc256000164)

[5.2.7 Obligations of Dedicated Connection Asset Service Providers 96](#_Toc256000165)

[5.2A Transmission network connection and access 96](#_Toc256000166)

[5.2A.1 Application 96](#_Toc256000167)

[5.2A.2 Relevant assets 97](#_Toc256000168)

[5.2A.3 Connection and access to transmission services 97](#_Toc256000169)

[5.2A.4 Transmission services related to connection 99](#_Toc256000170)

[5.2A.5 Publication and provision of information 102](#_Toc256000171)

[5.2A.6 Negotiating principles 102](#_Toc256000172)

[5.2A.7 Third party IUSAs 103](#_Toc256000173)

[5.2A.8 Access framework for large dedicated connection assets 104](#_Toc256000174)

[5.3 Establishing or Modifying Connection 106](#_Toc256000175)

[5.3.1 Process and procedures 106](#_Toc256000176)

[5.3.1A Application of rule to connection of embedded generating units 107](#_Toc256000177)

[5.3.2 Connection enquiry 107](#_Toc256000178)

[5.3.3 Response to connection enquiry 109](#_Toc256000179)

[5.3.4 Application for connection 112](#_Toc256000180)

[5.3.4A Negotiated access standards 114](#_Toc256000181)

[5.3.4B System strength remediation for new connections 117](#_Toc256000182)

[5.3.5 Preparation of offer to connect 120](#_Toc256000183)

[5.3.6 Offer to connect 121](#_Toc256000184)

[5.3.7 Finalisation of connection agreements and network operating agreements 125](#_Toc256000185)

[5.3.8 Provision and use of information 126](#_Toc256000186)

[5.3.9 Procedure to be followed by a Generator proposing to alter a generating system 128](#_Toc256000187)

[5.3.10 Acceptance of performance standards for generating plant that is altered 130](#_Toc256000188)

[5.3.11 Notification of request to change normal voltage 130](#_Toc256000189)

[5.3A Establishing or modifying connection - embedded generation 131](#_Toc256000190)

[5.3A.1 Application of rule 5.3A 131](#_Toc256000191)

[5.3A.2 Definitions and miscellaneous 132](#_Toc256000192)

[5.3A.3 Publication of Information 132](#_Toc256000193)

[5.3A.4 Fees 134](#_Toc256000194)

[5.3A.5 Enquiry 135](#_Toc256000195)

[5.3A.6 Response to Enquiry 136](#_Toc256000196)

[5.3A.7 Preliminary Response to Enquiry 136](#_Toc256000197)

[5.3A.8 Detailed Response to Enquiry 137](#_Toc256000198)

[5.3A.9 Application for connection 138](#_Toc256000199)

[5.3A.10 Preparation of offer to connect 139](#_Toc256000200)

[5.3A.11 Technical Dispute 140](#_Toc256000201)

[5.3A.12 Network support payments and functions 140](#_Toc256000202)

[5.3AA Access arrangements relating to Distribution Networks 141](#_Toc256000203)

[5.3B Application for connection to declared shared network 144](#_Toc256000204)

[5.4 Independent Engineer 145](#_Toc256000205)

[5.4.1 Application 145](#_Toc256000206)

[5.4.2 Establishment of a pool 145](#_Toc256000207)

[5.4.3 Initiating the Independent Engineer process 145](#_Toc256000208)

[5.4.4 Referral to the Adviser 146](#_Toc256000209)

[5.4.5 Proceedings and decisions of the Independent Engineer 147](#_Toc256000210)

[5.4.6 Costs of the Independent Engineer 148](#_Toc256000211)

[5.4A [Deleted] 148](#_Toc256000212)

[5.4AA [Deleted] 148](#_Toc256000213)

[5.5 Commercial arbitration for prescribed and negotiated transmission services and large DCA services 148](#_Toc256000214)

[5.5.1 Application 148](#_Toc256000215)

[5.5.2 Notification of dispute 149](#_Toc256000216)

[5.5.3 Appointment of commercial arbitrator 149](#_Toc256000217)

[5.5.4 Procedures of commercial arbitrator 150](#_Toc256000218)

[5.5.5 Powers of commercial arbitrator in determining disputes 150](#_Toc256000219)

[5.5.6 Determination of disputes 151](#_Toc256000220)

[5.5.7 Costs of dispute 152](#_Toc256000221)

[5.5.8 Enforcement of agreement or determination and requirement for reasons 153](#_Toc256000222)

[5.5.9 Miscellaneous 153](#_Toc256000223)

[5.5A  [Deleted] 153](#_Toc256000224)

[Part C Post-Connection Agreement matters 153](#_Toc256000225)

[5.6 Design of Connected Equipment 153](#_Toc256000226)

[5.6.1 Application 153](#_Toc256000227)

[5.6.2 Advice of inconsistencies 154](#_Toc256000228)

[5.6.3 Additional information 154](#_Toc256000229)

[5.6.4 Advice on possible non-compliance 154](#_Toc256000230)

[5.6A  [Deleted] 155](#_Toc256000231)

[5.7 Inspection and Testing 155](#_Toc256000232)

[5.7.1 Right of entry and inspection 155](#_Toc256000233)

[5.7.2 Right of testing 157](#_Toc256000234)

[5.7.3 Tests to demonstrate compliance with connection requirements for generators 158](#_Toc256000235)

[5.7.3A Tests to demonstrate compliance with system strength remediation schemes 160](#_Toc256000236)

[5.7.4 Routine testing of protection equipment 161](#_Toc256000237)

[5.7.5 Testing by Registered Participants of their own plant requiring changes to normal operation 163](#_Toc256000238)

[5.7.6 Tests of generating units requiring changes to normal operation 165](#_Toc256000239)

[5.7.7 Inter-network power system tests 166](#_Toc256000240)

[5.7.8 Contestable IUSA components 172](#_Toc256000241)

[5.8 Commissioning 172](#_Toc256000242)

[5.8.1 Requirement to inspect and test equipment 172](#_Toc256000243)

[5.8.2 Co-ordination during commissioning 173](#_Toc256000244)

[5.8.3 Control and protection settings for equipment 173](#_Toc256000245)

[5.8.4 Commissioning program 174](#_Toc256000246)

[5.8.5 Commissioning tests 175](#_Toc256000247)

[5.9 Disconnection and Reconnection 175](#_Toc256000248)

[5.9.1 Voluntary disconnection 175](#_Toc256000249)

[5.9.2 Decommissioning procedures 176](#_Toc256000250)

[5.9.3 Involuntary disconnection 176](#_Toc256000251)

[5.9.4 Direction to disconnect 177](#_Toc256000252)

[5.9.4A Notification of disconnection 178](#_Toc256000253)

[5.9.5 Disconnection during an emergency 178](#_Toc256000254)

[5.9.6 Obligation to reconnect 178](#_Toc256000255)

[Part D Network Planning and Expansion 179](#_Toc256000256)

[5.10 Network development generally 179](#_Toc256000257)

[5.10.1 Content of Part D 179](#_Toc256000258)

[5.10.2 Definitions 180](#_Toc256000259)

[5.10.3 Interpretation 185](#_Toc256000260)

[5.11 Forecasts of connection to transmission network and identification of system limitations 185](#_Toc256000261)

[5.11.1 Forecasts for connection to transmission network 185](#_Toc256000262)

[5.11.2 Identification of network limitations 186](#_Toc256000263)

[5.12 Transmission annual planning process 186](#_Toc256000264)

[5.12.1 Transmission annual planning review 186](#_Toc256000265)

[5.12.2 Transmission Annual Planning Report 187](#_Toc256000266)

[5.13 Distribution annual planning process 191](#_Toc256000267)

[5.13.1 Distribution annual planning review 191](#_Toc256000268)

[5.13.2 Distribution Annual Planning Report 193](#_Toc256000269)

[5.13.3 Distribution system limitation template 193](#_Toc256000270)

[5.13A Distribution zone substation information 194](#_Toc256000271)

[5.14 Joint planning 197](#_Toc256000272)

[5.14.1 Joint planning obligations of Transmission Network Service Providers and Distribution Network Service Providers 197](#_Toc256000273)

[5.14.2 Joint planning obligations of Distribution Network Service Providers and Distribution Network Service Providers 198](#_Toc256000274)

[5.14.3 Joint planning obligations of Transmission Network Service Providers 199](#_Toc256000275)

[5.14.4 Joint planning by Transmission Network Service Providers and AEMO 199](#_Toc256000276)

[5.14A Joint planning in relation to retirement or de-ratings of network assets forming part of the Declared Shared Network 200](#_Toc256000277)

[5.14B TAPR Guidelines 200](#_Toc256000278)

[5.14B.1 Development of TAPR Guidelines 200](#_Toc256000279)

[5.15 Regulatory investment tests generally 200](#_Toc256000280)

[5.15.1 Interested parties 200](#_Toc256000281)

[5.15.2 Identification of a credible option 200](#_Toc256000282)

[5.15.3 Review of costs thresholds 202](#_Toc256000283)

[5.15.4 Costs determinations 204](#_Toc256000284)

[5.15A Regulatory investment test for transmission 204](#_Toc256000285)

[5.15A.1 General principles and application 204](#_Toc256000286)

[5.15A.2 Principles for RIT-T projects which are not actionable ISP projects 205](#_Toc256000287)

[5.15A.3 Principles for actionable ISP projects 207](#_Toc256000288)

[5.16 Application of RIT-T to RIT-T projects which are not actionable ISP projects 209](#_Toc256000289)

[5.16.1 Application 209](#_Toc256000290)

[5.16.2 Regulatory investment test for transmission application guidelines 209](#_Toc256000291)

[5.16.3 Investments subject to the regulatory investment test for transmission 211](#_Toc256000292)

[5.16.4 Regulatory investment test for transmission procedures 213](#_Toc256000293)

[5.16.5 [Deleted] 219](#_Toc256000294)

[5.16B Disputes in relation to application of regulatory investment test for transmission 219](#_Toc256000295)

[5.16.6 [Deleted] 221](#_Toc256000296)

[5.16A Application of the RIT-T to actionable ISP Projects 221](#_Toc256000297)

[5.16A.1 Application 221](#_Toc256000298)

[5.16A.2 Cost Benefit Analysis Guidelines 221](#_Toc256000299)

[5.16A.3 Actionable ISP projects subject to the RIT-T 222](#_Toc256000300)

[5.16A.4 Regulatory investment test for transmission procedures 223](#_Toc256000301)

[5.16A.5 Actionable ISP project trigger event 226](#_Toc256000302)

[5.17 Regulatory investment test for distribution 226](#_Toc256000303)

[5.17.1 Principles 226](#_Toc256000304)

[5.17.2 Regulatory investment test for distribution application guidelines 228](#_Toc256000305)

[5.17.3 Projects subject to the regulatory investment test for distribution 230](#_Toc256000306)

[5.17.4 Regulatory investment test for distribution procedures 231](#_Toc256000307)

[5.17.5 Disputes in relation to application of regulatory investment test for distribution 236](#_Toc256000308)

[5.18 Construction of funded augmentations 238](#_Toc256000309)

[5.18A Generator connections 239](#_Toc256000310)

[5.18A.1 Definitions 239](#_Toc256000311)

[5.18A.2 Register of generator connections 239](#_Toc256000312)

[5.18A.3 Impact assessment of large generator connections 240](#_Toc256000313)

[5.18B Completed embedded generation projects 241](#_Toc256000314)

[5.18B.1 Definitions 241](#_Toc256000315)

[5.18B.2 Register of completed embedded generation projects 241](#_Toc256000316)

[5.19 SENE Design and Costing Study 242](#_Toc256000317)

[5.19.1 Definitions 242](#_Toc256000318)

[5.19.2 Interpretation 243](#_Toc256000319)

[5.19.3 Request for SENE Design and Costing Study 243](#_Toc256000320)

[5.19.4 Content of SENE Design and Costing Study 244](#_Toc256000321)

[5.19.5 Co-operation of other Network Service Providers 245](#_Toc256000322)

[5.19.6 Publication of SENE Design and Costing Study report 245](#_Toc256000323)

[5.19.7 Provision and use of information 245](#_Toc256000324)

[5.20 System security reports 246](#_Toc256000325)

[5.20.1 Definitions 246](#_Toc256000326)

[5.20.2 Publication of NSCAS methodology 246](#_Toc256000327)

[5.20.3 Publication of NSCAS Report 247](#_Toc256000328)

[5.20.4 Inertia requirements methodology 247](#_Toc256000329)

[5.20.5 Publication of Inertia Report 248](#_Toc256000330)

[5.20.6 Publication of system strength requirements methodologies 248](#_Toc256000331)

[5.20.7 Publication of System Strength Report 249](#_Toc256000332)

[5.20A Frequency management planning 249](#_Toc256000333)

[5.20A.1 Power system frequency risk review 249](#_Toc256000334)

[5.20A.2 Power system frequency risk review process 250](#_Toc256000335)

[5.20A.3 Power system frequency risk review report 250](#_Toc256000336)

[5.20A.4 Request for protected event declaration 251](#_Toc256000337)

[5.20A.5 Request to revoke a protected event declaration 252](#_Toc256000338)

[5.20B Inertia sub-networks and requirements 252](#_Toc256000339)

[5.20B.1 Boundaries of inertia sub-networks 252](#_Toc256000340)

[5.20B.2 Inertia requirements 253](#_Toc256000341)

[5.20B.3 Inertia shortfalls 253](#_Toc256000342)

[5.20B.4 Inertia Service Provider to make available inertia services 254](#_Toc256000343)

[5.20B.5 Inertia support activities 256](#_Toc256000344)

[5.20B.6 Inertia network services information and approvals 258](#_Toc256000345)

[5.20C System strength requirements 259](#_Toc256000346)

[5.20C.1 System strength requirements 259](#_Toc256000347)

[5.20C.2 Fault level shortfalls 260](#_Toc256000348)

[5.20C.3 System Strength Service Provider to make available system strength services 261](#_Toc256000349)

[5.20C.4 System strength services information and approvals 262](#_Toc256000350)

[5.21 AEMO's obligation to publish information and guidelines and provide advice 264](#_Toc256000351)

[5.22 Integrated System Plan 266](#_Toc256000352)

[5.22.1 Duty of AEMO to make Integrated System Plan 266](#_Toc256000353)

[5.22.2 Purpose of the ISP 266](#_Toc256000354)

[5.22.3 Power system needs 266](#_Toc256000355)

[5.22.4 ISP timetable 267](#_Toc256000356)

[5.22.5 Guidelines relevant to the ISP 267](#_Toc256000357)

[5.22.6 Content of Integrated System Plan 269](#_Toc256000358)

[5.22.7 ISP consumer panel 270](#_Toc256000359)

[5.22.8 Preliminary consultations 271](#_Toc256000360)

[5.22.9 AER transparency review on Inputs, Assumptions and Scenarios Report 272](#_Toc256000361)

[5.22.10 Preparation of ISP 272](#_Toc256000362)

[5.22.11 Draft Integrated System Plan 275](#_Toc256000363)

[5.22.12 Non-network options 275](#_Toc256000364)

[5.22.13 AER transparency review of draft Integrated System Plan 276](#_Toc256000365)

[5.22.14 Final Integrated System Plan 276](#_Toc256000366)

[5.22.15 ISP updates 277](#_Toc256000367)

[5.22.16 ISP database 278](#_Toc256000368)

[5.22.17 Jurisdictional planning bodies and jurisdictional planning representatives 279](#_Toc256000369)

[5.22.18 NTP Functions 279](#_Toc256000370)

[5.23 Disputes in relation to an ISP 279](#_Toc256000371)

[5.23.1 Disputing party 279](#_Toc256000372)

[5.23.2 Initial AER review 280](#_Toc256000373)

[5.23.3 Provision of further information 280](#_Toc256000374)

[5.23.4 AER determination 281](#_Toc256000375)

[Schedule 5.1a System standards 281](#_Toc256000376)

[S5.1a.1 Purpose 281](#_Toc256000377)

[S5.1a.2 Frequency 282](#_Toc256000378)

[S5.1a.3 System stability 282](#_Toc256000379)

[S5.1a.4 Power frequency voltage 282](#_Toc256000380)

[S5.1a.5 Voltage fluctuations 283](#_Toc256000381)

[S5.1a.6 Voltage waveform distortion 284](#_Toc256000382)

[S5.1a.7 Voltage unbalance 284](#_Toc256000383)

[S5.1a.8 Fault clearance times 285](#_Toc256000384)

[Schedule 5.1 Network Performance Requirements to be Provided or Co-ordinated by Network Service Providers 286](#_Toc256000385)

[S5.1.1 Introduction 286](#_Toc256000386)

[S5.1.2 Network reliability 287](#_Toc256000387)

[S5.1.2.1 Credible contingency events 287](#_Toc256000388)

[S5.1.2.2 Network service within a region 288](#_Toc256000389)

[S5.1.2.3 Network service between regions 289](#_Toc256000390)

[S5.1.3 Frequency variations 290](#_Toc256000391)

[S5.1.4 Magnitude of power frequency voltage 290](#_Toc256000392)

[S5.1.5 Voltage fluctuations 291](#_Toc256000393)

[S5.1.6 Voltage harmonic or voltage notching distortion 292](#_Toc256000394)

[S5.1.7 Voltage unbalance 293](#_Toc256000395)

[S5.1.8 Stability 294](#_Toc256000396)

[S5.1.9 Protection systems and fault clearance times 295](#_Toc256000397)

[S5.1.10 Load, generation and network control facilities 298](#_Toc256000398)

[S5.1.10.1 General 298](#_Toc256000399)

[S5.1.10.1a Emergency frequency control schemes 298](#_Toc256000400)

[S5.1.10.2 Distribution Network Service Providers 300](#_Toc256000401)

[S5.1.10.3 Transmission Network Service Providers 300](#_Toc256000402)

[S5.1.11 Automatic reclosure of transmission or distribution lines 300](#_Toc256000403)

[S5.1.12 Rating of transmission lines and equipment 300](#_Toc256000404)

[S5.1.13 Information to be provided 301](#_Toc256000405)

[Schedule 5.2 Conditions for Connection of Generators 301](#_Toc256000406)

[S5.2.1 Outline of requirements 301](#_Toc256000407)

[S5.2.2 Application of Settings 302](#_Toc256000408)

[S5.2.3 Technical matters to be coordinated 303](#_Toc256000409)

[S5.2.4 Provision of information 304](#_Toc256000410)

[S5.2.5 Technical requirements 306](#_Toc256000411)

[S5.2.5.1 Reactive power capability 306](#_Toc256000412)

[S5.2.5.2 Quality of electricity generated 308](#_Toc256000413)

[S5.2.5.3 Generating system response to frequency disturbances 309](#_Toc256000414)

[S5.2.5.4 Generating system response to voltage disturbances 311](#_Toc256000415)

[S5.2.5.5 Generating system response to disturbances following contingency events 313](#_Toc256000416)

[S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation 321](#_Toc256000417)

[S5.2.5.7 Partial load rejection 321](#_Toc256000418)

[S5.2.5.8 Protection of generating systems from power system disturbances 322](#_Toc256000419)

[S5.2.5.9 Protection systems that impact on power system security 323](#_Toc256000420)

[S5.2.5.10 Protection to trip plant for unstable operation 325](#_Toc256000421)

[S5.2.5.11 Frequency control 326](#_Toc256000422)

[S5.2.5.12 Impact on network capability 329](#_Toc256000423)

[S5.2.5.13 Voltage and reactive power control 330](#_Toc256000424)

[S5.2.5.14 Active power control 336](#_Toc256000425)

[S5.2.6 Monitoring and control requirements 338](#_Toc256000426)

[S5.2.6.1 Remote Monitoring 338](#_Toc256000427)

[S5.2.6.2 Communications equipment 341](#_Toc256000428)

[S5.2.7 Power station auxiliary supplies 342](#_Toc256000429)

[S5.2.8 Fault current 342](#_Toc256000430)

[Schedule 5.3 Conditions for Connection of Customers 343](#_Toc256000431)

[S5.3.1a Introduction to the schedule 343](#_Toc256000432)

[S5.3.1 Information 344](#_Toc256000433)

[S5.3.2 Design standards 346](#_Toc256000434)

[S5.3.3 Protection systems and settings 346](#_Toc256000435)

[S5.3.4 Settings of protection and control systems 347](#_Toc256000436)

[S5.3.5 Power factor requirements 348](#_Toc256000437)

[S5.3.6 Balancing of load currents 349](#_Toc256000438)

[S5.3.7 Voltage fluctuations 350](#_Toc256000439)

[S5.3.8 Harmonics and voltage notching 350](#_Toc256000440)

[S5.3.9 Design requirements for Network Users' substations 350](#_Toc256000441)

[S5.3.10 Load shedding facilities 351](#_Toc256000442)

[Schedule 5.3a Conditions for connection of Market Network Services 351](#_Toc256000443)

[S5.3a.1a Introduction to the schedule 351](#_Toc256000444)

[S5.3a.1 Provision of Information 352](#_Toc256000445)

[S5.3a.2 Application of settings 354](#_Toc256000446)

[S5.3a.3 Technical matters to be co-ordinated 355](#_Toc256000447)

[S5.3a.4 Monitoring and control requirements 355](#_Toc256000448)

[S5.3a.4.1 Remote Monitoring 355](#_Toc256000449)

[S5.3a.4.2 [Deleted] 356](#_Toc256000450)

[S5.3a.4.3 Communications equipment 356](#_Toc256000451)

[S5.3a.5 Design standards 357](#_Toc256000452)

[S5.3a.6 Protection systems and settings 357](#_Toc256000453)

[S5.3a.7 [Deleted] 358](#_Toc256000454)

[S5.3a.8 Reactive power capability 358](#_Toc256000455)

[S5.3a.9 Balancing of load currents 359](#_Toc256000456)

[S5.3a.10 Voltage fluctuations 359](#_Toc256000457)

[S5.3a.11 Harmonics and voltage notching 359](#_Toc256000458)

[S5.3a.12 Design requirements for Market Network Service Providers' substations 360](#_Toc256000459)

[S5.3a.13 Market network service response to disturbances in the power system 360](#_Toc256000460)

[S5.3a.14 Protection of market network services from power system disturbances 361](#_Toc256000461)

[Schedule 5.4 Information to be Provided with Preliminary Enquiry 362](#_Toc256000462)

[Schedule 5.4A Preliminary Response 362](#_Toc256000463)

[Schedule 5.4B Detailed Response to Enquiry 364](#_Toc256000464)

[Schedule 5.5 Technical Details to Support Application for Connection and Connection Agreement 366](#_Toc256000465)

[S5.5.1 Introduction to the schedule 367](#_Toc256000466)

[S5.5.2 Categories of data 367](#_Toc256000467)

[S5.5.3 Review, change and supply of data 368](#_Toc256000468)

[S5.5.4 Data Requirements 368](#_Toc256000469)

[S5.5.5 Asynchronous generating unit data 369](#_Toc256000470)

[S5.5.6 Generating units smaller than 30MW data 369](#_Toc256000471)

[S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines 369](#_Toc256000472)

[Schedule 5.5.1 [Deleted] 372](#_Toc256000473)

[Schedule 5.5.2 [Deleted] 372](#_Toc256000474)

[Schedule 5.5.3 Network and plant technical data of equipment at or near connection point 372](#_Toc256000475)

[Schedule 5.5.4 Network Plant and Apparatus Setting Data 375](#_Toc256000476)

[Schedule 5.5.5 Load Characteristics at Connection Point 377](#_Toc256000477)

[Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements 378](#_Toc256000478)

[Part A Connection agreements 378](#_Toc256000479)

[Part B Network Operating Agreements 380](#_Toc256000480)

[Schedule 5.7 Annual Forecast Information for Planning Purposes 380](#_Toc256000481)

[Schedule 5.8 Distribution Annual Planning Report 382](#_Toc256000482)

[Schedule 5.9 Demand side engagement document (clause 5.13.1(h)) 388](#_Toc256000483)

[Schedule 5.10 Information requirements for Primary Transmission Network Service Providers (clause 5.2A.5) 390](#_Toc256000484)

[Schedule 5.11 Negotiating principles for negotiated transmission services (clause 5.2A.6) 393](#_Toc256000485)

[Schedule 5.12 Negotiating principles for large DCA services 395](#_Toc256000486)

[5A. Electricity connection for retail customers 399](#_Toc256000487)

[Part A Preliminary 399](#_Toc256000488)

[5A.A.1 Definitions 399](#_Toc256000489)

[5A.A.2 Application of this Chapter 402](#_Toc256000490)

[5A.A.3 Small Generation Aggregator deemed to be agent of a retail customer 402](#_Toc256000491)

[Part B Standardised offers to provide basic and standard connection services 403](#_Toc256000492)

[Division 1 Basic connection services 403](#_Toc256000493)

[5A.B.1 Obligation to have model standing offer to provide basic connection services 403](#_Toc256000494)

[5A.B.2 Proposed model standing offer for basic connection services 403](#_Toc256000495)

[5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services 404](#_Toc256000496)

[Division 2 Standard connection services 405](#_Toc256000497)

[5A.B.4 Standard connection services 405](#_Toc256000498)

[5A.B.5 Approval of model standing offer to provide standard connection services 406](#_Toc256000499)

[Division 3 Miscellaneous 407](#_Toc256000500)

[5A.B.6 Amendment etc of model standing offer 407](#_Toc256000501)

[5A.B.7 Publication of model standing offers 407](#_Toc256000502)

[Part C Negotiated connection 408](#_Toc256000503)

[5A.C.1 Negotiation of connection 408](#_Toc256000504)

[5A.C.2 Process of negotiation 408](#_Toc256000505)

[5A.C.3 Negotiation framework 408](#_Toc256000506)

[5A.C.4 Fee to cover cost of negotiation 410](#_Toc256000507)

[Part D Application for connection service 411](#_Toc256000508)

[Division 1 Information 411](#_Toc256000509)

[5A.D.1 Publication of information 411](#_Toc256000510)

[5A.D.1A Register of completed embedded generation projects 411](#_Toc256000511)

[Division 2 Preliminary enquiry 412](#_Toc256000512)

[5A.D.2 Preliminary enquiry 412](#_Toc256000513)

[Division 3 Applications 413](#_Toc256000514)

[5A.D.3 Application process 413](#_Toc256000515)

[5A.D.4 Site inspection 414](#_Toc256000516)

[Part E Connection charges 415](#_Toc256000517)

[5A.E.1 Connection charge principles 415](#_Toc256000518)

[5A.E.2 Itemised statement of connection charges 416](#_Toc256000519)

[5A.E.3 Connection charge guidelines 416](#_Toc256000520)

[5A.E.4 Payment of connection charges 418](#_Toc256000521)

[Part F Formation and integration of connection contracts 419](#_Toc256000522)

[Division 1 Offer and acceptance – basic and standard connection services 419](#_Toc256000523)

[5A.F.1 Distribution Network Service Provider's response to application 419](#_Toc256000524)

[5A.F.2 Acceptance of connection offer 419](#_Toc256000525)

[5A.F.3 Offer and acceptance—application for expedited connection 420](#_Toc256000526)

[Division 2 Offer and acceptance – negotiated connection 420](#_Toc256000527)

[5A.F.4 Negotiated connection offer 420](#_Toc256000528)

[Division 3 Formation of contract 421](#_Toc256000529)

[5A.F.5 Acceptance of connection offer 421](#_Toc256000530)

[Division 4 Contractual performance 421](#_Toc256000531)

[5A.F.6 Carrying out connection work 421](#_Toc256000532)

[5A.F.7 Retailer required for energisation where new connection 422](#_Toc256000533)

[Part G Dispute resolution between Distribution Network Service Providers and customers 422](#_Toc256000534)

[5A.G.1 Relevant disputes 422](#_Toc256000535)

[5A.G.2 Determination of dispute 422](#_Toc256000536)

[5A.G.3 Termination of proceedings 423](#_Toc256000537)

[SCHEDULE 5A.1 – Minimum content requirements for connection contract 423](#_Toc256000538)

[Part A Connection offer not involving embedded generation 423](#_Toc256000539)

[Part B Connection offer involving embedded generation 424](#_Toc256000540)

[6. Economic Regulation of Distribution Services 429](#_Toc256000541)

[Part A Introduction 429](#_Toc256000542)

[6.0 Operation of Chapter 6 in this jurisdiction 429](#_Toc256000543)

[6.0A Interpretation 429](#_Toc256000544)

[6.1 Introduction to Chapter 6 430](#_Toc256000545)

[6.1.1 AER's regulatory responsibility 430](#_Toc256000546)

[6.1.1A [Deleted] 430](#_Toc256000547)

[6.1.2 Structure of this Chapter 430](#_Toc256000548)

[6.1.3 Access to direct control services and negotiated distribution services 431](#_Toc256000549)

[6.1.4 Prohibition of DUOS charges for the export of energy 432](#_Toc256000550)

[Part B Classification of Distribution Services and Distribution Determinations 432](#_Toc256000551)

[6.2 Classification 432](#_Toc256000552)

[6.2.1 Classification of distribution services 432](#_Toc256000553)

[6.2.2 Classification of direct control services as standard control services or alternative control services 432](#_Toc256000554)

[6.2.3 Term for which classification operates 433](#_Toc256000555)

[6.2.3A Distribution Service Classification Guidelines 433](#_Toc256000556)

[6.2.4 Duty of AER to make distribution determinations 434](#_Toc256000557)

[6.2.5 Control mechanisms for direct control services 434](#_Toc256000558)

[6.2.6 Basis of control mechanisms for direct control services 436](#_Toc256000559)

[6.2.7 Negotiated distribution services 436](#_Toc256000560)

[6.2.8 Guidelines 436](#_Toc256000561)

[Part C Building Block Determinations for standard control services 437](#_Toc256000562)

[6.3 Building block determinations 437](#_Toc256000563)

[6.3.1 Introduction 437](#_Toc256000564)

[6.3.2 Contents of building block determination 437](#_Toc256000565)

[6.4 Post-tax revenue model 438](#_Toc256000566)

[6.4.1 Preparation, publication and amendment of post-tax revenue model 438](#_Toc256000567)

[6.4.2 Contents of post-tax revenue model 438](#_Toc256000568)

[6.4.3 Building block approach 439](#_Toc256000569)

[6.4.4 Shared assets 440](#_Toc256000570)

[6.4.5 Expenditure Forecast Assessment Guidelines 442](#_Toc256000571)

[6.4A Capital expenditure incentive mechanisms 442](#_Toc256000572)

[6.4B Asset exemptions 443](#_Toc256000573)

[6.4B.1 Asset exemption decisions and Asset Exemption Guidelines 443](#_Toc256000574)

[6.4B.2 Exemption applications 444](#_Toc256000575)

[6.5 Matters relevant to the making of building block determinations 445](#_Toc256000576)

[6.5.1 Regulatory asset base 445](#_Toc256000577)

[6.5.2 Return on capital 446](#_Toc256000578)

[6.5.3 Estimated cost of corporate income tax 446](#_Toc256000579)

[6.5.4 [Deleted] 446](#_Toc256000580)

[6.5.5 Depreciation 446](#_Toc256000581)

[6.5.6 Forecast operating expenditure 447](#_Toc256000582)

[6.5.7 Forecast capital expenditure 449](#_Toc256000583)

[6.5.8 Efficiency benefit sharing scheme 454](#_Toc256000584)

[6.5.8A Capital expenditure sharing scheme 455](#_Toc256000585)

[6.5.9 The X factor 456](#_Toc256000586)

[6.5.10 Pass through events 457](#_Toc256000587)

[6.6 Adjustments after making of building block determination. 457](#_Toc256000588)

[6.6.1 Cost pass through 457](#_Toc256000589)

[6.6.1AA Cost pass through – deemed determinations 464](#_Toc256000590)

[6.6.1AB Cost pass through – NT events 465](#_Toc256000591)

[6.6.1A Reporting on jurisdictional schemes 470](#_Toc256000592)

[6.6.2 Service target performance incentive scheme 471](#_Toc256000593)

[6.6.3 Demand management incentive scheme 472](#_Toc256000594)

[6.6.3A Demand management innovation allowance mechanism 473](#_Toc256000595)

[6.6.4 Small-scale incentive scheme 474](#_Toc256000596)

[6.6.5 Reopening of distribution determination for capital expenditure 475](#_Toc256000597)

[6.6A Contingent Projects 479](#_Toc256000598)

[6.6A.1 Acceptance of a contingent project in a distribution determination 479](#_Toc256000599)

[6.6A.2 Amendment of distribution determination for contingent project 480](#_Toc256000600)

[Part D Negotiated distribution services 485](#_Toc256000601)

[6.7 Negotiated distribution services 485](#_Toc256000602)

[6.7.1 Principles relating to access to negotiated distribution services 485](#_Toc256000603)

[6.7.2 Determination of terms and conditions of access for negotiated distribution services 487](#_Toc256000604)

[6.7.3 Negotiating framework determination 487](#_Toc256000605)

[6.7.4 Negotiated Distribution Service Criteria determination 487](#_Toc256000606)

[6.7.5 Preparation of and requirements for negotiating framework for negotiated distribution services 488](#_Toc256000607)

[6.7.6 Confidential information 490](#_Toc256000608)

[Part DA Connection policies 490](#_Toc256000609)

[6.7A Connection policy requirements 490](#_Toc256000610)

[6.7A.1 Preparation of, and requirements for, connection policy 490](#_Toc256000611)

[Part E Regulatory proposal and proposed tariff structure statement 491](#_Toc256000612)

[6.8 Regulatory proposal and proposed tariff structure statement 491](#_Toc256000613)

[6.8.1 AER's framework and approach paper 491](#_Toc256000614)

[6.8.1A Notification of approach to forecasting expenditure 493](#_Toc256000615)

[6.8.2 Submission of regulatory proposal, tariff structure statement and exemption application 494](#_Toc256000616)

[6.9 Preliminary examination and consultation 496](#_Toc256000617)

[6.9.1 Preliminary examination 496](#_Toc256000618)

[6.9.2 Resubmission of proposal 496](#_Toc256000619)

[6.9.2A Confidential information 496](#_Toc256000620)

[6.9.3 Consultation 497](#_Toc256000621)

[6.10 Draft distribution determination and further consultation 498](#_Toc256000622)

[6.10.1 Making of draft distribution determination 498](#_Toc256000623)

[6.10.2 Publication of draft determination and consultation 498](#_Toc256000624)

[6.10.3 Submission of revised proposal 499](#_Toc256000625)

[6.10.4 Submissions on specified matters 500](#_Toc256000626)

[6.11 Distribution determination 500](#_Toc256000627)

[6.11.1 Making of distribution determination 500](#_Toc256000628)

[6.11.1A Out of scope revised regulatory proposal or late submissions 501](#_Toc256000629)

[6.11.2 Notice of distribution determination 501](#_Toc256000630)

[6.11.3 Commencement of distribution determination 502](#_Toc256000631)

[6.12 Requirements relating to draft and final distribution determinations 502](#_Toc256000632)

[6.12.1 Constituent decisions 502](#_Toc256000633)

[6.12.2 Reasons for decisions 505](#_Toc256000634)

[6.12.3 Extent of AER's discretion in making distribution determinations 506](#_Toc256000635)

[6.13 Revocation and substitution of distribution determination for wrong information or error 507](#_Toc256000636)

[6.14 Miscellaneous 508](#_Toc256000637)

[6.14A Distribution Confidentiality Guidelines 508](#_Toc256000638)

[Part F Cost Allocation 509](#_Toc256000639)

[6.15 Cost allocation 509](#_Toc256000640)

[6.15.1 Duty to comply with Cost Allocation Method 509](#_Toc256000641)

[6.15.2 Cost Allocation Principles 509](#_Toc256000642)

[6.15.3 Cost Allocation Guidelines 510](#_Toc256000643)

[6.15.4 Cost Allocation Method 511](#_Toc256000644)

[Part G Distribution consultation procedures 512](#_Toc256000645)

[6.16 Distribution consultation procedures 512](#_Toc256000646)

[Part H Ring-Fencing Arrangements for Distribution Network Service Providers 513](#_Toc256000647)

[6.17 Distribution Ring-Fencing Guidelines 513](#_Toc256000648)

[6.17.1 Compliance with Distribution Ring-Fencing Guidelines 513](#_Toc256000649)

[6.17.1B Application of Distribution Ring-Fencing Guidelines in this jurisdiction 514](#_Toc256000650)

[6.17.2 Development of Distribution Ring-Fencing Guidelines 514](#_Toc256000651)

[Part I Distribution Pricing Rules 515](#_Toc256000652)

[6.18 Distribution Pricing Rules 515](#_Toc256000653)

[6.18.1 Application of this Part 515](#_Toc256000654)

[6.18.1A Tariff structure statement 515](#_Toc256000655)

[6.18.1B Amending a tariff structure statement with the AER's approval 516](#_Toc256000656)

[6.18.1C Sub-threshold tariffs 517](#_Toc256000657)

[6.18.2 Pricing proposals 518](#_Toc256000658)

[6.18.3 Tariff classes 519](#_Toc256000659)

[6.18.4 Principles governing assignment or re-assignment of retail customers to tariff classes and assessment and review of basis of charging 520](#_Toc256000660)

[6.18.5 Pricing principles 520](#_Toc256000661)

[6.18.6 Side constraints on tariffs for standard control services 522](#_Toc256000662)

[6.18.7 Recovery of designated pricing proposal charges 523](#_Toc256000663)

[6.18.7A Recovery of jurisdictional scheme amounts 524](#_Toc256000664)

[6.18.8 Approval of pricing proposal 527](#_Toc256000665)

[6.18.9 Publication of information about tariffs and tariff classes 528](#_Toc256000666)

[6.19 Data Required for Distribution Service Pricing 529](#_Toc256000667)

[6.19.1 Forecast use of networks by Distribution Customers and Embedded Generators 529](#_Toc256000668)

[6.19.2 Confidentiality of distribution network pricing information 529](#_Toc256000669)

[Part J Billing and Settlements 529](#_Toc256000670)

[6.20 Billing and Settlements Process 529](#_Toc256000671)

[6.20.1 Billing for distribution services 529](#_Toc256000672)

[6.20.2 Minimum information to be provided in distribution network service bills 531](#_Toc256000673)

[6.20.3 Settlement between Distribution Network Service Providers 531](#_Toc256000674)

[6.20.4 Obligation to pay 531](#_Toc256000675)

[Part K Prudential requirements, capital contributions and prepayments 532](#_Toc256000676)

[6.21 Distribution Network Service Provider Prudential Requirements 532](#_Toc256000677)

[6.21.1 Prudential requirements for distribution network service 532](#_Toc256000678)

[6.21.2 Capital contributions, prepayments and financial guarantees 533](#_Toc256000679)

[6.21.3 Treatment of past prepayments and capital contributions 533](#_Toc256000680)

[Part L Dispute resolution 533](#_Toc256000681)

[6.22 Dispute Resolution 533](#_Toc256000682)

[6.22.1 Dispute Resolution by the AER 533](#_Toc256000683)

[6.22.2 Determination of dispute 534](#_Toc256000684)

[6.22.3 Termination of access dispute without access determination 535](#_Toc256000685)

[Part M Separate disclosure of transmission and distribution charges 535](#_Toc256000686)

[6.23 Separate disclosure of transmission and distribution charges 535](#_Toc256000687)

[Part N Dual Function Assets 536](#_Toc256000688)

[6.24 Dual Function Assets 537](#_Toc256000689)

[6.24.1 Application of this Part 537](#_Toc256000690)

[6.24.2 Dual Function Assets 537](#_Toc256000691)

[6.25 AER determination of applicable pricing regime for Dual Function Assets 537](#_Toc256000692)

[6.26 Division of Distribution Network Service Provider's revenue 538](#_Toc256000693)

[Part O Annual Benchmarking Report 539](#_Toc256000694)

[6.27 Annual Benchmarking Report 539](#_Toc256000695)

[Part P Distribution Reliability Measures Guidelines 540](#_Toc256000696)

[6.28 Distribution Reliability Measures Guidelines 540](#_Toc256000697)

[Schedule 6.1 Contents of building block proposals 540](#_Toc256000698)

[S6.1.1 Information and matters relating to capital expenditure 540](#_Toc256000699)

[S6.1.2 Information and matters relating to operating expenditure 542](#_Toc256000700)

[S6.1.3 Additional information and matters 543](#_Toc256000701)

[Schedule 6.2 Regulatory Asset Base 546](#_Toc256000702)

[S6.2.1 Establishment of opening regulatory asset base for a regulatory control period 546](#_Toc256000703)

[S6.2.2 Prudency and efficiency of capital expenditure 550](#_Toc256000704)

[S6.2.2A Reduction for inefficient past capital expenditure 551](#_Toc256000705)

[S6.2.2B Depreciation 553](#_Toc256000706)

[S6.2.3 Roll forward of regulatory asset base within the same regulatory control period 554](#_Toc256000707)

[S6.2.3A Establishment of opening regulatory asset base for distribution system in this jurisdiction for 1st regulatory control period 555](#_Toc256000708)

[6A. Economic Regulation of Transmission Services 561](#_Toc256000709)

[6B. Retail Markets 565](#_Toc256000710)

[7. Metering 569](#_Toc256000711)

[7A. Metering 573](#_Toc256000712)

[Part A Introduction 573](#_Toc256000713)

[7A.1 Introduction to the Metering Chapter 573](#_Toc256000714)

[7A.1.1 Purpose and application 573](#_Toc256000715)

[7A.1.2 Contents 573](#_Toc256000716)

[7A.1.3 Definitions 573](#_Toc256000717)

[7A.1.4 Inconsistency 574](#_Toc256000718)

[Part B Roles and Responsibilities 574](#_Toc256000719)

[7A.2 Role and responsibility of financially responsible participant 574](#_Toc256000720)

[7A.3 Role and responsibility of Metering Coordinator 575](#_Toc256000721)

[7A.3.1 Responsibility of the Metering Coordinator 575](#_Toc256000722)

[7A.3.2 Role of the Metering Coordinator 576](#_Toc256000723)

[7A.4 Qualification and requirements of Metering Providers and Metering Data Providers 578](#_Toc256000724)

[7A.4.1 Qualification and requirements of Metering Providers 578](#_Toc256000725)

[7A.4.2 Qualification and requirements of Metering Data Providers 578](#_Toc256000726)

[Part C Appointment of Metering Coordinator 579](#_Toc256000727)

[7A.5 Appointment of Metering Coordinator 579](#_Toc256000728)

[Part D Metering installation 580](#_Toc256000729)

[7A.6 Metering installation arrangement 580](#_Toc256000730)

[7A.6.1 Metering installation requirements 580](#_Toc256000731)

[7A.6.2 Metering installation components 580](#_Toc256000732)

[7A.6.3 Emergency management 583](#_Toc256000733)

[7A.6.4 Network devices 583](#_Toc256000734)

[7A.6.5 Metering point 583](#_Toc256000735)

[7A.6.6 Metering installation types and accuracy 584](#_Toc256000736)

[7A.6.7 Functionality requirements for type 1, 2, 3 and 4 metering installations 584](#_Toc256000737)

[7A.6.8 Meter churn 584](#_Toc256000738)

[7A.6.9 Metering installation malfunctions 585](#_Toc256000739)

[7A.6.10 Timeframes for meters to be installed – new connection 586](#_Toc256000740)

[7A.6.11 Timeframes for meters to be installed – where a connection service is not required 586](#_Toc256000741)

[7A.6.12 Timeframes for meters to be installed – where a connection alteration is required 587](#_Toc256000742)

[7A.6.13 Changing a metering installation 588](#_Toc256000743)

[7A.6.14 Prepayment metering 589](#_Toc256000744)

[7A.7 Maintenance, inspection, testing and auditing of metering installations 589](#_Toc256000745)

[7A.7.1 Maintenance 589](#_Toc256000746)

[7A.7.2 Responsibility for inspection and testing 590](#_Toc256000747)

[7A.7.3 Actions in event of non-compliance 591](#_Toc256000748)

[7A.7.4 Audits of information held in metering installations 592](#_Toc256000749)

[7A.7.5 Appointment of external auditor 592](#_Toc256000750)

[7A.7.6 Errors found in metering tests, inspections or audits 593](#_Toc256000751)

[7A.7.7 Retention of test records and documents 593](#_Toc256000752)

[Part E Metering data 594](#_Toc256000753)

[7A.8 Metering data services 594](#_Toc256000754)

[7A.8.1 Metering data services 594](#_Toc256000755)

[7A.8.2 Collection of energy data and estimation of metering data 595](#_Toc256000756)

[7A.8.3 Data management and storage 596](#_Toc256000757)

[7A.8.4 Provision of metering data to certain persons 597](#_Toc256000758)

[7A.8.5 Use of check metering data 598](#_Toc256000759)

[7A.8.6 Periodic energy metering 598](#_Toc256000760)

[7A.8.7 Verification of metering data Metering installations other than type 7 metering installations 599](#_Toc256000761)

[7A.8.8 Time settings 600](#_Toc256000762)

[7A.8.9 Metering data performance standards 600](#_Toc256000763)

[7A.9 Metering data and data base 602](#_Toc256000764)

[7A.9.1 Metering database 602](#_Toc256000765)

[7A.9.2 Data validation, substitution and estimation 603](#_Toc256000766)

[7A.9.3 Changes to energy data or to metering data 603](#_Toc256000767)

[7A.10 Register of metering information 604](#_Toc256000768)

[7A.10.1 Metering register 604](#_Toc256000769)

[7A.10.2 Metering installation registration process 604](#_Toc256000770)

[7A.10.3 Metering register discrepancy 604](#_Toc256000771)

[7A.11 Disclosure of information 605](#_Toc256000772)

[7A.11.1 Provision of data to retailers 605](#_Toc256000773)

[7A.12 Metering data provision to retail customers 606](#_Toc256000774)

[Part F Security of metering installations and energy data 606](#_Toc256000775)

[7A.13 Security of metering installations, energy data and metering data 606](#_Toc256000776)

[7A.13.1 Confidentiality of data 606](#_Toc256000777)

[7A.13.2 Security of metering installations 606](#_Toc256000778)

[7A.13.3 Security controls for energy data 607](#_Toc256000779)

[7A.13.4 Additional security controls for type 4 metering installations 608](#_Toc256000780)

[7A.13.5 Access to data 609](#_Toc256000781)

[Schedule 7A.1 Metering register 610](#_Toc256000782)

[S7A.1.1 General 610](#_Toc256000783)

[S7A.1.2 Metering register information 611](#_Toc256000784)

[S7A.1.3 Communication guideline 611](#_Toc256000785)

[Schedule 7A.2 Metering provider 611](#_Toc256000786)

[Schedule 7A.3 Metering data provider 611](#_Toc256000787)

[Schedule 7A.4 Types and accuracy of metering installations 611](#_Toc256000788)

[S7A.4.1 General requirements 611](#_Toc256000789)

[S7A.4.2 Accuracy requirements for metering installations 612](#_Toc256000790)

[S7A.4.3 Check metering 616](#_Toc256000791)

[S7A.4.4 Resolution and accuracy of displayed or captured data 617](#_Toc256000792)

[S7A.4.5 General design standards 618](#_Toc256000793)

[S7A.4.5.1 Design requirements 618](#_Toc256000794)

[S7A.4.5.2 Design guidelines 618](#_Toc256000795)

[Schedule 7A.5 Metering functionality requirements for type 1, 2, 3 and 4 metering requirements 619](#_Toc256000796)

[S7A.5.1 Introduction 619](#_Toc256000797)

[S7A.5.1.1 Purpose 619](#_Toc256000798)

[S7A.5.1.2 Definitions 619](#_Toc256000799)

[S7A.5.2 Functionality Requirements for Meters in Type 1, 2, and 3 metering installations 619](#_Toc256000800)

[S7A.5.2.1 Application 619](#_Toc256000801)

[S7A.5.2.2 Applicable meter configurations 620](#_Toc256000802)

[S7A.5.2.3 Metrology 620](#_Toc256000803)

[S7A.5.3 Functionality Requirements for Meters in Type 4 metering installations 620](#_Toc256000804)

[S7A.5.3.1 Application 620](#_Toc256000805)

[S7A.5.3.2 Applicable meter configurations 620](#_Toc256000806)

[S7A.5.3.3 Metrology 621](#_Toc256000807)

[S7A.5.3.4 Remote and local reading of meters 621](#_Toc256000808)

[S7A.5.3.5 Supply disconnection and reconnection 622](#_Toc256000809)

[S7A.5.3.5.1 General requirements 622](#_Toc256000810)

[S7A.5.3.5.2 Disconnection 622](#_Toc256000811)

[S7A.5.3.5.3 Reconnection 622](#_Toc256000812)

[S7A.5.3.6 Time clock synchronisation 623](#_Toc256000813)

[S7A.5.3.7 Quality of Supply and other event recording 623](#_Toc256000814)

[S7A.5.3.8 Tamper detection 624](#_Toc256000815)

[S7A.5.3.9 Communications and data security 624](#_Toc256000816)

[S7A.5.3.10 Remote firmware upgrades 624](#_Toc256000817)

[S7A.5.3.11 Remote arming 624](#_Toc256000818)

[Schedule 7A.6 Inspection and testing requirements 624](#_Toc256000819)

[S7A.6.1 General 624](#_Toc256000820)

[S7A.6.2 Technical guidelines 626](#_Toc256000821)

[Schedule 7A.7 Metrology procedure 627](#_Toc256000822)

[Part A ​ 627](#_Toc256000823)

[S7A.7.1 Introduction 627](#_Toc256000824)

[S7A.7.1.1 General 627](#_Toc256000825)

[S7A.7.1.2 Definitions 627](#_Toc256000826)

[S7A.7.1.3 Relevant retailer 628](#_Toc256000827)

[Part B ​ 628](#_Toc256000828)

[S7A.7.2 Purpose and scope 628](#_Toc256000829)

[S7A.7.2.1 Purpose 628](#_Toc256000830)

[S7A.7.2.2 Scope 629](#_Toc256000831)

[S7A.7.3 Metering provision 629](#_Toc256000832)

[S7A.7.3.1 Responsibility for metering provision 629](#_Toc256000833)

[S7A.7.3.2 Metering installation components 629](#_Toc256000834)

[S7A.7.3.3 Use of optical ports and pulse outputs 630](#_Toc256000835)

[S7A.7.3.4 Load control equipment 631](#_Toc256000836)

[S7A.7.3.5 Data storage requirements for meters 631](#_Toc256000837)

[S7A.7.3.6 Metering installation clock 631](#_Toc256000838)

[S7A.7.3.7 Interval meters 631](#_Toc256000839)

[S7A.7.3.8 Alarm settings 632](#_Toc256000840)

[S7A.7.3.9 Summation metering 632](#_Toc256000841)

[S7A.7.3.10 ​ 632](#_Toc256000842)

[S7A.7.3.11 Routine testing and inspection of metering installations 632](#_Toc256000843)

[S7A.7.3.12 Requests for testing type 1 – 6 metering installations 633](#_Toc256000844)

[S7A.7.4 Installation of meters and de-commissioning 634](#_Toc256000845)

[S7A.7.4.1 General installation requirements 634](#_Toc256000846)

[S7A.7.4.2 Type 4A, 5 and 6 metering installations 634](#_Toc256000847)

[S7A.7.4.3 Preliminary de-commissioning and removal of metering equipment requirements 634](#_Toc256000848)

[S7A.7.4.4 ​ 634](#_Toc256000849)

[S7A.7.5 ​ 635](#_Toc256000850)

[S7A.7.6 Responsibility for metering data services 635](#_Toc256000851)

[S7A.7.6.1 Metering data storage 635](#_Toc256000852)

[S7A.7.6.2 Verification of metering data for type 4, 4A, 5, 6 and 7 installations 635](#_Toc256000853)

[S7A.7.6.3 Metering installation type 7 – sample testing 636](#_Toc256000854)

[S7A.7.6.4 Request for text of calculated metering data 637](#_Toc256000855)

[S7A.7.6.5 NTESMO's metering data substitution obligations 638](#_Toc256000856)

[Part C ​ 638](#_Toc256000857)

[S7A.7.7 Purpose and scope 638](#_Toc256000858)

[S7A.7.7.1 Purpose 638](#_Toc256000859)

[S7A.7.7.2 Scope 638](#_Toc256000860)

[S7A.7.8 Principles for validation, substitution and estimation 638](#_Toc256000861)

[S7A.7.8.1 General validation, substitution and estimation requirements 638](#_Toc256000862)

[S7A.7.8.2 Substitution requirements 638](#_Toc256000863)

[S7A.7.8.3 Estimation requirement 639](#_Toc256000864)

[S7A.7.8.4 Metering data quality flags 640](#_Toc256000865)

[S7A.7.8.5 Final substitution 640](#_Toc256000866)

[S7A.7.9 Substitution for acquisition of metering data from remotely read metering installations 641](#_Toc256000867)

[S7A.7.9.1 Application of S7A.7.9 641](#_Toc256000868)

[S7A.7.9.2 Substitution rules 641](#_Toc256000869)

[S7A.7.9.3 Substitution types 643](#_Toc256000870)

[S7A.7.10 Substitution and estimation for manually read interval metering installations 646](#_Toc256000871)

[S7A.7.10.1 Application of S7A7.10 646](#_Toc256000872)

[S7A.7.10.2 Substitution and estimation rules 646](#_Toc256000873)

[S7A.7.10.3 Substitution and estimation types 647](#_Toc256000874)

[S7A.7.11 Substitution and estimation for metering installations with accumulated metering data 649](#_Toc256000875)

[S7A.7.11.1 Substitution and estimation rules 649](#_Toc256000876)

[S7A.7.11.2 Substitution and estimation types 651](#_Toc256000877)

[S7A.7.12 Substitution and estimation for calculated metering data 652](#_Toc256000878)

[S7A.7.12.1 Substitution rules 652](#_Toc256000879)

[S7A.7.12.2 Substitution and estimation types 653](#_Toc256000880)

[S7A.7.13 Data validation requirements 654](#_Toc256000881)

[S7A.7.13.1 Validation requirements for all metering installations 654](#_Toc256000882)

[S7A.7.13.2 Validation of interval metering data alarms 654](#_Toc256000883)

[S7A.7.13.3 Validation within the meter reading process for manually read metering installations 655](#_Toc256000884)

[S7A.7.13.4 Validation as part of the registration process 655](#_Toc256000885)

[S7A.7.13.5 Validation of metering data 656](#_Toc256000886)

[S7A.7.14 Determination of metering data for unmetered loads 662](#_Toc256000887)

[S7A.7.14.1 Load table 662](#_Toc256000888)

[S7A.7.14.2 Controlled unmetered devices 663](#_Toc256000889)

[S7A.7.14.3 Uncontrolled unmetered devices 667](#_Toc256000890)

[Schedule 7A.8 Service level procedures 668](#_Toc256000891)

[Part A Introduction 668](#_Toc256000892)

[S7A.8.1 Introduction 668](#_Toc256000893)

[S7A.8.1.1 Purpose and scope 668](#_Toc256000894)

[S7A.8.1.2 Definitions 668](#_Toc256000895)

[Part B Metering provider services 669](#_Toc256000896)

[S7A.8.2 Introduction 669](#_Toc256000897)

[S7A.8.2.1 Purpose and exclusions 669](#_Toc256000898)

[S7A.8.2.2 Services 669](#_Toc256000899)

[S7A.8.3 General requirements 669](#_Toc256000900)

[S7A.8.3.1 Metering Provider capability and competency 669](#_Toc256000901)

[S7A.8.3.2 Use of contractors 670](#_Toc256000902)

[S7A.8.3.3 Insurance 670](#_Toc256000903)

[S7A.8.4 Device management and test equipment 671](#_Toc256000904)

[S7A.8.4.1 Procurement 671](#_Toc256000905)

[S7A.8.4.2 Storage, handling and transport 671](#_Toc256000906)

[S7A.8.4.3 Management of test equipment 671](#_Toc256000907)

[S7A.8.4.4 Management of meter programming and authorised software 672](#_Toc256000908)

[S7A.8.5 Installation and commissioning requirements 672](#_Toc256000909)

[S7A.8.5.1 General commissioning requirements 672](#_Toc256000910)

[S7A.8.5.2 Metering data validation requirements 673](#_Toc256000911)

[S7A.8.6 Metering installation maintenance 674](#_Toc256000912)

[S7A.8.6.1 Test plans 674](#_Toc256000913)

[S7A.8.6.2 Management of metering installation malfunctions 674](#_Toc256000914)

[S7A.8.6.3 Telecommunications 674](#_Toc256000915)

[S7A.8.6.4 Non-conforming test results or calibrations 675](#_Toc256000916)

[S7A.8.7 Systems and administration 675](#_Toc256000917)

[S7A.8.7.1 Register of metering installations 675](#_Toc256000918)

[S7A.8.7.2 Disaster recovery 676](#_Toc256000919)

[S7A.8.7.3 Audits undertaken by the Utilities Commission 676](#_Toc256000920)

[Part C Metering Data Provider services 676](#_Toc256000921)

[S7A.8.8 Introduction 676](#_Toc256000922)

[S7A.8.8.1 Purpose 676](#_Toc256000923)

[S7A.8.8.2 Obligations 677](#_Toc256000924)

[S7A.8.9 Service requirements 679](#_Toc256000925)

[S7A.8.9.1 System requirements 679](#_Toc256000926)

[S7A.8.9.2 Metering data services database 680](#_Toc256000927)

[S7A.8.9.3 Exception reports 680](#_Toc256000928)

[S7A.8.9.4 Collection process requirements 680](#_Toc256000929)

[S7A.8.9.5 Specific collection process requirements for remotely read metering installations 681](#_Toc256000930)

[S7A.8.9.6 Specific collection process requirements for manually read metering installations 681](#_Toc256000931)

[S7A.8.9.7 Metering data processing requirements 682](#_Toc256000932)

[S7A.8.9.8 Specific metering data processing requirements for type 1, 2, 3 and 4 metering installations 683](#_Toc256000933)

[S7A.8.9.9 Specific metering data processing requirements for type 7 metering installations 683](#_Toc256000934)

[S7A.8.9.10 Specific metering data estimation requirements for manually read and type 7 metering installations 684](#_Toc256000935)

[S7A.8.9.11 Delivery performance requirements for metering data 684](#_Toc256000936)

[S7A.8.10 Data management following the alteration of type of metering installation at a connection point 686](#_Toc256000937)

[S7A.8.10.1 Meter churn scenarios 686](#_Toc256000938)

[S7A.8.10.2 Scenario 1 687](#_Toc256000939)

[S7A.8.10.3 Scenario 2 687](#_Toc256000940)

[S7A.8.10.4 Scenario 3 687](#_Toc256000941)

[S7A.8.10.5 Scenario 4 687](#_Toc256000942)

[S7A.8.11 System architecture and administration 688](#_Toc256000943)

[S7A.8.11.1 Metering data archival and recovery 688](#_Toc256000944)

[S7A.8.11.2 Data backup 689](#_Toc256000945)

[S7A.8.11.3 Disaster recovery 689](#_Toc256000946)

[S7A.8.11.4 System administration and data management 690](#_Toc256000947)

[S7A.8.12 Quality control 690](#_Toc256000948)

[S7A.8.12.1 Audits 690](#_Toc256000949)

[S7A.8.12.2 Corrective action 691](#_Toc256000950)

[S7A.8.13.1 Administration 691](#_Toc256000951)

[S7A.8.13.2 Quality systems 692](#_Toc256000952)

[8. Administrative Functions 695](#_Toc256000953)

[Part A Introductory 695](#_Toc256000954)

[8.1 Administrative functions 695](#_Toc256000955)

[8.1.1 [Deleted] 695](#_Toc256000956)

[8.1.2 [Deleted] 695](#_Toc256000957)

[8.1.3 Structure of this Chapter 695](#_Toc256000958)

[Part B Disputes 695](#_Toc256000959)

[Part C Registered Participants' confidentiality obligations 696](#_Toc256000960)

[8.6 Confidentiality 696](#_Toc256000961)

[8.6.1 Confidentiality 696](#_Toc256000962)

[8.6.1A Application 697](#_Toc256000963)

[8.6.2 Exceptions 697](#_Toc256000964)

[8.6.3 Conditions 698](#_Toc256000965)

[8.6.4 [Deleted] 699](#_Toc256000966)

[8.6.5 Indemnity to AER, AEMC and AEMO 699](#_Toc256000967)

[8.6.6 AEMO information 699](#_Toc256000968)

[8.6.7 Information on Rules Bodies 699](#_Toc256000969)

[Part D Monitoring and reporting 699](#_Toc256000970)

[8.7 Monitoring and Reporting 699](#_Toc256000971)

[8.7.1 Monitoring 699](#_Toc256000972)

[8.7.2 Reporting requirements and monitoring standards for Registered Participants 700](#_Toc256000973)

[8.7.3 Consultation required for making general regulatory information order (Section 28H of the NEL) 702](#_Toc256000974)

[8.7.4 Preparation of network service provider performance report (Section 28V of the NEL) 703](#_Toc256000975)

[8.7.5 [Deleted] 703](#_Toc256000976)

[8.7.6 Recovery of reporting costs 703](#_Toc256000977)

[Part E Reliability panel 704](#_Toc256000978)

[8.8 Reliability Panel 704](#_Toc256000979)

[8.8.1 Purpose of Reliability Panel 704](#_Toc256000980)

[8.8.2 Constitution of the Reliability Panel 705](#_Toc256000981)

[8.8.3 Reliability Panel review process 707](#_Toc256000982)

[8.8.4 Determination of protected events 710](#_Toc256000983)

[Part F Rules consultation procedures 711](#_Toc256000984)

[8.9 Rules Consultation Procedures 711](#_Toc256000985)

[Part G Consumer advocacy funding 714](#_Toc256000986)

[8.10 Consumer advocacy funding obligation 714](#_Toc256000987)

[Part H Augmentations 714](#_Toc256000988)

[8.11 Augmentations 714](#_Toc256000989)

[8.11.1 Application 714](#_Toc256000990)

[8.11.2 Object 714](#_Toc256000991)

[8.11.3 Definitions 715](#_Toc256000992)

[8.11.4 Planning criteria 715](#_Toc256000993)

[8.11.5 Construction of augmentation that is not a contestable augmentation 716](#_Toc256000994)

[8.11.6 Contestable augmentations 716](#_Toc256000995)

[8.11.7 Construction and operation of contestable augmentation 717](#_Toc256000996)

[8.11.8 Funded augmentations that are not subject to the tender process 718](#_Toc256000997)

[8.11.9 Contractual requirements and principles 719](#_Toc256000998)

[8.11.10 Annual planning review 720](#_Toc256000999)

[Schedule 8.11 Principles to be reflected in agreements relating to contestable augmentations 720](#_Toc256001000)

[S8.11.1 Risk allocation 720](#_Toc256001001)

[S8.11.2 Minimum requirements for agreements relating to contestable augmentation 721](#_Toc256001002)

[S8.11.3 Matters to be dealt with in relevant agreements 721](#_Toc256001003)

[Part I Values of customer reliability 722](#_Toc256001004)

[8.12 Development of methodology and publication of values of customer reliability 722](#_Toc256001005)

[8A. Participant Derogations 727](#_Toc256001006)

[Part 1 Derogations Granted to TransGrid 727](#_Toc256001007)

[8A.1 [Deleted] 727](#_Toc256001008)

[Part 2 Derogations Granted to EnergyAustralia 727](#_Toc256001009)

[8A.2 [Deleted] 727](#_Toc256001010)

[8A.2A [Deleted] 727](#_Toc256001011)

[Part 3 [Deleted] 727](#_Toc256001012)

[Part 4 [Deleted] 727](#_Toc256001013)

[Part 5 [Deleted] 727](#_Toc256001014)

[Part 6 Derogations Granted to Victorian Market Participants 727](#_Toc256001015)

[Part 7 [Deleted] 728](#_Toc256001016)

[Part 8 [Deleted] 728](#_Toc256001017)

[Part 9 [Deleted] 728](#_Toc256001018)

[Part 10 [Deleted] 728](#_Toc256001019)

[Part 11 [Deleted] 728](#_Toc256001020)

[Part 12 [Deleted] 728](#_Toc256001021)

[Part 13 Derogation granted to Aurora Energy (Tamar Valley) Pty Ltd 728](#_Toc256001022)

[8A.13 [Deleted] 728](#_Toc256001023)

[Part 14 Derogations granted to Ausgrid, Endeavour Energy and Essential Energy 728](#_Toc256001024)

[8A.14 Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period 728](#_Toc256001025)

[8A.14.1 Definitions 728](#_Toc256001026)

[8A.14.2 Expiry date 732](#_Toc256001027)

[8A.14.3 Application of Rule 8A.14 732](#_Toc256001028)

[8A.14.4 Recovery of revenue across the current regulatory control period and subsequent regulatory control period 733](#_Toc256001029)

[8A.14.5 Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required 734](#_Toc256001030)

[8A.14.6 Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required 735](#_Toc256001031)

[8A.14.7 Requirements for adjustment determination 736](#_Toc256001032)

[8A.14.8 Application of Chapter 6 under participant derogation 737](#_Toc256001033)

[Part 15 Derogations granted to ActewAGL 738](#_Toc256001034)

[8A.15 Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period 738](#_Toc256001035)

[8A.15.1 Definitions 738](#_Toc256001036)

[8A.15.2 Expiry date 742](#_Toc256001037)

[8A.15.3 Application of Rule 8A.15 742](#_Toc256001038)

[8A.15.4 Recovery of revenue across the current regulatory control period and subsequent regulatory control period 742](#_Toc256001039)

[8A.15.5 Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required 744](#_Toc256001040)

[8A.15.6 Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required 745](#_Toc256001041)

[8A.15.7 Requirements for adjustment determination 747](#_Toc256001042)

[8A.15.8 Application of Chapter 6 under participant derogation 747](#_Toc256001043)

[9. Jurisdictional Derogations and Transitional Arrangements 753](#_Toc256001044)

[9.1 Purpose and Application 753](#_Toc256001045)

[9.1.1 Purpose 753](#_Toc256001046)

[9.1.2 Jurisdictional Derogations 753](#_Toc256001047)

[Part A Jurisdictional Derogations for Victoria 753](#_Toc256001048)

[9.2 [Deleted] 753](#_Toc256001049)

[9.3 Definitions 753](#_Toc256001050)

[9.3.1 General Definitions 753](#_Toc256001051)

[9.3.2 [Deleted] 755](#_Toc256001052)

[9.3A Fault levels 755](#_Toc256001053)

[9.4 Transitional Arrangements for Chapter 2 - Registered Participants, Registration and Cross Border Networks 756](#_Toc256001054)

[9.4.1 [Deleted] 756](#_Toc256001055)

[9.4.2 Smelter Trader 756](#_Toc256001056)

[9.4.3 Smelter Trader: compliance 756](#_Toc256001057)

[9.4.4 Report from AER 759](#_Toc256001058)

[9.4.5 Cross Border Networks 759](#_Toc256001059)

[9.5 Transitional Arrangements for Chapter 3 – Reliability and Emergency Reserve Trader 760](#_Toc256001060)

[9.5.1 Definition 760](#_Toc256001061)

[9.5.2 Expiry date 760](#_Toc256001062)

[9.5.3 Multi-year Victorian contracts – term and volume 760](#_Toc256001063)

[9.5.4 Multi-year Victorian contracts - reporting 760](#_Toc256001064)

[9.6 Transitional Arrangements for Chapter 4 - System Security 761](#_Toc256001065)

[9.6.1 Operating Procedures (clause 4.10.1) 761](#_Toc256001066)

[9.6.2 Nomenclature Standards (clause 4.12) 761](#_Toc256001067)

[9.7 Transitional Arrangements for Chapter 5 - Network Connection 762](#_Toc256001068)

[9.7.1 [Deleted] 762](#_Toc256001069)

[9.7.2 [Deleted] 762](#_Toc256001070)

[9.7.3 [Deleted] 762](#_Toc256001071)

[9.7.4 Regulation of Distribution Network Connection 762](#_Toc256001072)

[9.7.5 [Deleted] 763](#_Toc256001073)

[9.7.6 [Deleted] 763](#_Toc256001074)

[9.7.7 [Deleted] 763](#_Toc256001075)

[9.8 Transitional Arrangements for Chapter 6 - Network Pricing 763](#_Toc256001076)

[9.8.1 [Deleted] 763](#_Toc256001077)

[9.8.2 [Deleted] 763](#_Toc256001078)

[9.8.3 [Deleted] 763](#_Toc256001079)

[9.8.4 Transmission Network Pricing 763](#_Toc256001080)

[9.8.4A [Deleted] 764](#_Toc256001081)

[9.8.4B [Deleted] 764](#_Toc256001082)

[9.8.4C [Deleted] 764](#_Toc256001083)

[9.8.4D [Deleted] 764](#_Toc256001084)

[9.8.4E [Deleted] 764](#_Toc256001085)

[9.8.4F [Deleted] 764](#_Toc256001086)

[9.8.4G [Deleted] 764](#_Toc256001087)

[9.8.5 [Deleted] 764](#_Toc256001088)

[9.8.6 [Deleted] 764](#_Toc256001089)

[9.8.7 Distribution network pricing – transitional application of former Chapter 6 764](#_Toc256001090)

[9.8.8 Exclusion of AER's power to aggregate distribution systems and parts of distribution systems 765](#_Toc256001091)

[9.9 Transitional Arrangements for Chapter 7 - Metering 766](#_Toc256001092)

[9.9.1 Metering Installations To Which This Schedule Applies 766](#_Toc256001093)

[9.9.2 [Deleted] 766](#_Toc256001094)

[9.9.3 [Deleted] 766](#_Toc256001095)

[9.9.4 [Deleted] 766](#_Toc256001096)

[9.9.5 [Deleted] 766](#_Toc256001097)

[9.9.6 [Deleted] 766](#_Toc256001098)

[9.9.7 [Deleted] 766](#_Toc256001099)

[9.9.8 [Deleted] 766](#_Toc256001100)

[9.9.9 Periodic Energy Metering (clause 7.9.3) 766](#_Toc256001101)

[9.9.10 Use of Alternate Technologies (clause 7.13) 766](#_Toc256001102)

[9.9A [Deleted] 767](#_Toc256001103)

[9.9B [Deleted] 767](#_Toc256001104)

[9.9C [Deleted] 767](#_Toc256001105)

[1. Interpretation of tables 767](#_Toc256001106)

[2. Continuing effect 767](#_Toc256001107)

[3. Subsequent agreement 768](#_Toc256001108)

[4. [Deleted] 768](#_Toc256001109)

[5. Reactive Power Capability (clause S5.2.5.1 of schedule 5.2) 768](#_Toc256001110)

[6. [Deleted] 769](#_Toc256001111)

[7. [Deleted] 769](#_Toc256001112)

[8. [Deleted] 769](#_Toc256001113)

[9. [Deleted] 769](#_Toc256001114)

[10. [Deleted] 769](#_Toc256001115)

[11. [Deleted 769](#_Toc256001116)

[12. [Deleted] 769](#_Toc256001117)

[13. Governor Systems (load control) (clause S5.2.5.11 of schedule 5.2) 769](#_Toc256001118)

[14. [Deleted] 769](#_Toc256001119)

[15. [Deleted] 769](#_Toc256001120)

[16. Excitation Control System (clause S5.2.5.13 of schedule 5.2) 769](#_Toc256001121)

[Part B Jurisdictional Derogations for New South Wales 770](#_Toc256001122)

[9.10 [Deleted] 770](#_Toc256001123)

[9.11 Definitions 770](#_Toc256001124)

[9.11.1 Definitions used in this Part B 770](#_Toc256001125)

[9.12 Transitional Arrangements for Chapter 2 - Generators, Registered Participants, Registration and Cross Border Networks 771](#_Toc256001126)

[9.12.1 [Deleted] 771](#_Toc256001127)

[9.12.2 Customers 771](#_Toc256001128)

[9.12.3 Power Traders 771](#_Toc256001129)

[9.12.4 Cross Border Networks 774](#_Toc256001130)

[9.13 [Deleted] 775](#_Toc256001131)

[9.14 Transitional Arrangements for Chapter 4 - System Security 775](#_Toc256001132)

[9.14.1 Power System Operating Procedures 775](#_Toc256001133)

[9.15 NSW contestable services for Chapter 5A 775](#_Toc256001134)

[9.15.1 Definitions 775](#_Toc256001135)

[9.15.2 Chapter 5A not to apply to certain contestable services 775](#_Toc256001136)

[9.16 Transitional Arrangements for Chapter 6 - Network Pricing 775](#_Toc256001137)

[9.16.1 NSW contestable services 775](#_Toc256001138)

[9.16.2 [Deleted] 775](#_Toc256001139)

[9.16.3 Jurisdictional Regulator 775](#_Toc256001140)

[9.16.4 Deemed Regulated Interconnector 776](#_Toc256001141)

[9.16.5 [Deleted] 776](#_Toc256001142)

[9.17 Transitional Arrangements for Chapter 7 - Metering 776](#_Toc256001143)

[9.17.1 Extent of Derogations 776](#_Toc256001144)

[9.17.2 Initial Registration (clause 7.1.2) 776](#_Toc256001145)

[9.17.3 Amendments to Schedule 9G1 776](#_Toc256001146)

[9.17.4 Compliance with AS/NZ ISO 9002 (clause S7.4.3(f) of schedule 7.4) 777](#_Toc256001147)

[9.17A [Deleted] 777](#_Toc256001148)

[9.18 [Deleted] 777](#_Toc256001149)

[Part C Jurisdictional Derogations for the Australian Capital Territory 777](#_Toc256001150)

[9.19 [Deleted] 777](#_Toc256001151)

[9.20 Definitions and Transitional Arrangements for Cross-Border Networks 777](#_Toc256001152)

[9.20.1 Definitions 777](#_Toc256001153)

[9.20.2 Cross Border Networks 777](#_Toc256001154)

[9.21 [Deleted] 778](#_Toc256001155)

[9.22 [Deleted] 778](#_Toc256001156)

[9.23 Transitional Arrangements for Chapter 6 - Network Pricing 778](#_Toc256001157)

[9.23.1 [Deleted] 778](#_Toc256001158)

[9.23.2 [Deleted] 778](#_Toc256001159)

[9.23.3 [Deleted 778](#_Toc256001160)

[9.23.4 [Deleted] 778](#_Toc256001161)

[9.24 Transitional Arrangements 778](#_Toc256001162)

[9.24.1 Chapter 7 - Metering 778](#_Toc256001163)

[9.24.2 [Deleted] 778](#_Toc256001164)

[9.24A [Deleted] 778](#_Toc256001165)

[Part D Jurisdictional Derogations for South Australia 778](#_Toc256001166)

[9.25 Definitions 778](#_Toc256001167)

[9.25.1 [Deleted] 778](#_Toc256001168)

[9.25.2 Definitions 778](#_Toc256001169)

[9.26 Transitional Arrangements for Chapter 2 - Registered Participants, Registration And Cross Border Networks 781](#_Toc256001170)

[9.26.1 Registration as a Generator 781](#_Toc256001171)

[9.26.2 Registration as a Customer 782](#_Toc256001172)

[9.26.3 Cross Border Networks 782](#_Toc256001173)

[9.26.4 [Deleted] 782](#_Toc256001174)

[9.26.5 Registration as a Network Service Provider 782](#_Toc256001175)

[9.27 [Deleted] 783](#_Toc256001176)

[9.28 Transitional Arrangements for Chapter 5 - Network Connection 783](#_Toc256001177)

[9.28.1 Application of clause 5.2 783](#_Toc256001178)

[9.28.2 [Deleted] 784](#_Toc256001179)

[9.29 Transitional Arrangements for Chapter 6 - Economic Regulation of Distribution Services 784](#_Toc256001180)

[9.29.1 [Deleted] 784](#_Toc256001181)

[9.29.2 [Deleted] 784](#_Toc256001182)

[9.29.3 [Deleted] 784](#_Toc256001183)

[9.29.4 [Deleted] 784](#_Toc256001184)

[9.29.5 Distribution Network Pricing – South Australia 784](#_Toc256001185)

[9.29.6 Capital contributions, prepayments and financial guarantees 785](#_Toc256001186)

[9.29.7 Ring fencing 785](#_Toc256001187)

[9.29A Monitoring and reporting 785](#_Toc256001188)

[9.30 Transitional Provisions 786](#_Toc256001189)

[9.30.1 Chapter 7 - Metering 786](#_Toc256001190)

[Part E Jurisdictional Derogations for Queensland 786](#_Toc256001191)

[9.31 [Deleted] 786](#_Toc256001192)

[9.32 Definitions and Interpretation 786](#_Toc256001193)

[9.32.1 Definitions 786](#_Toc256001194)

[9.32.2 Interpretation 789](#_Toc256001195)

[9.33 Transitional Arrangements for Chapter 1 789](#_Toc256001196)

[9.33.1 [Deleted] 789](#_Toc256001197)

[9.34 Transitional Arrangements for Chapter 2 - Registered Participants and Registration 789](#_Toc256001198)

[9.34.1 Application of the Rules in Queensland (clauses 2.2 and 2.5) 789](#_Toc256001199)

[9.34.2 Stanwell Cross Border Leases (clause 2.2) 789](#_Toc256001200)

[9.34.3 [Deleted] 789](#_Toc256001201)

[9.34.4 Registration as a Customer (clause 2.3.1) 789](#_Toc256001202)

[9.34.5 There is no clause 9.34.5 790](#_Toc256001203)

[9.34.6 Exempted generation agreements (clause 2.2) 790](#_Toc256001204)

[9.35 [Deleted] 794](#_Toc256001205)

[9.36 [Deleted] 794](#_Toc256001206)

[9.37 Transitional Arrangements for Chapter 5 - Network Connection 794](#_Toc256001207)

[9.37.1 [Deleted] 794](#_Toc256001208)

[9.37.2 Existing connection and access agreements (clause 5.2) 794](#_Toc256001209)

[9.37.3 [Deleted] 795](#_Toc256001210)

[9.37.4 [Deleted] 795](#_Toc256001211)

[9.37.5 Forecasts for connection points to transmission network (clause 5.11.1) 795](#_Toc256001212)

[9.37.6 There is no clause 9.37.6 795](#_Toc256001213)

[9.37.7 Cross Border Networks 795](#_Toc256001214)

[9.37.8 [Deleted] 796](#_Toc256001215)

[9.37.9 Credible contingency events (clause S5.1.2.1 of schedule 5.1) 796](#_Toc256001216)

[9.37.10 Reactive power capability (clause S5.2.5.1 of schedule 5.2) 796](#_Toc256001217)

[9.37.11 [Deleted] 797](#_Toc256001218)

[9.37.12 Voltage fluctuations (clause S5.1.5 of schedule 5.1) 797](#_Toc256001219)

[9.37.13 [Deleted] 799](#_Toc256001220)

[9.37.14 [Deleted] 799](#_Toc256001221)

[9.37.15 [Deleted] 799](#_Toc256001222)

[9.37.16 [Deleted] 799](#_Toc256001223)

[9.37.17 [Deleted] 799](#_Toc256001224)

[9.37.18 [Deleted] 799](#_Toc256001225)

[9.37.19 Generating unit response to disturbances (clause S5.2.5.3 of schedule 5.2) 799](#_Toc256001226)

[9.37.20 [Deleted] 799](#_Toc256001227)

[9.37.21 Excitation control system (clause S.5.2.5.13 of schedule 5.2) 799](#_Toc256001228)

[9.37.22 [Deleted] 800](#_Toc256001229)

[9.37.23 Annual forecast information for planning purposes (schedule 5.7) 800](#_Toc256001230)

[9.38 Transitional Arrangements for Chapter 6 - Network Pricing 800](#_Toc256001231)

[9.38.1 [Deleted] 800](#_Toc256001232)

[9.38.2 [Deleted] 800](#_Toc256001233)

[9.38.3 [Deleted] 800](#_Toc256001234)

[9.38.4 Interconnectors between regions 800](#_Toc256001235)

[9.38.5 Transmission pricing for exempted generation agreements 800](#_Toc256001236)

[9.39 Transitional Arrangements for Chapter 7 - Metering 801](#_Toc256001237)

[9.39.1 Metering installations to which this clause applies 801](#_Toc256001238)

[9.39.2 [Deleted] 802](#_Toc256001239)

[9.39.3 [Deleted] 802](#_Toc256001240)

[9.39.4 [Deleted] 802](#_Toc256001241)

[9.39.5 [Deleted] 802](#_Toc256001242)

[9.40 Transitional Arrangements for Chapter 8 - Administration Functions 802](#_Toc256001243)

[9.40.1 [Deleted] 802](#_Toc256001244)

[9.40.2 [Deleted] 802](#_Toc256001245)

[9.40.3 [Deleted] 802](#_Toc256001246)

[9.41 [Deleted] 802](#_Toc256001247)

[Part F Jurisdictional Derogations for Tasmania 803](#_Toc256001248)

[9.42 Definitions and interpretation 803](#_Toc256001249)

[9.42.1 Definitions 803](#_Toc256001250)

[9.42.2 Interpretation 804](#_Toc256001251)

[9.42.3 National grid, power system and related expressions 804](#_Toc256001252)

[9.43 [Deleted] 805](#_Toc256001253)

[9.44 Transitional arrangements for Chapter 2 – Registered Participants and Registration - Customers (clause 2.3.1(e)) 805](#_Toc256001254)

[9.45 Tasmanian Region (clause 3.5) 805](#_Toc256001255)

[9.47 Transitional arrangements for Chapter 5- Network Connection 805](#_Toc256001256)

[9.47.1 Existing Connection Agreements 805](#_Toc256001257)

[9.48 Transitional arrangements - Transmission and Distribution Pricing 805](#_Toc256001258)

[9.48.4A Ring fencing 805](#_Toc256001259)

[9.48.4B Uniformity of tariffs for small customers 806](#_Toc256001260)

[9.48.5 Transmission network 806](#_Toc256001261)

[9.48.6 Deemed regulated interconnector 806](#_Toc256001262)

[Part G Schedules to Chapter 9 806](#_Toc256001263)

[1. Introduction 806](#_Toc256001264)

[2. [Deleted] 806](#_Toc256001265)

[3. General Principle 806](#_Toc256001266)

[4. [Deleted] 807](#_Toc256001267)

[5. Accuracy Requirements 807](#_Toc256001268)

[6. [Deleted] 807](#_Toc256001269)

[7. [Deleted] 807](#_Toc256001270)

[8. [Deleted] 807](#_Toc256001271)

[9. [Deleted] 807](#_Toc256001272)

[10. [Deleted] 807](#_Toc256001273)

[10. Glossary 811](#_Toc256001274)

[11. Savings and Transitional Rules 933](#_Toc256001275)

[Part ZZJ Demand management incentive scheme 933](#_Toc256001276)

[11.82 Rules consequential on making of the National Electricity Amendment (Demand management incentive scheme) Rule 2015 933](#_Toc256001277)

[11.82.1 Definitions 933](#_Toc256001278)

[11.82.2 AER to develop and publish the demand management incentive scheme and demand management innovation allowance mechanism 933](#_Toc256001279)

[Part ZZM Common definitions of distribution reliability measures 933](#_Toc256001280)

[11.85 Rules consequential on the making of the National Electricity Amendment (Common definitions of distribution reliability measures) Rule 2015 933](#_Toc256001281)

[11.85.1 Definitions 933](#_Toc256001282)

[11.85.2 Distribution reliability measures guidelines 934](#_Toc256001283)

[11.85.3 Amended STPIS 934](#_Toc256001284)

[11.86.8 Distribution Ring Fencing Guidelines 934](#_Toc256001285)

[Part ZZU Rate of Return Guidelines Review 934](#_Toc256001286)

[11.93 Rules consequential on the making of the National Electricity Amendment (Rate of Return Guidelines Review) Rule 2016 934](#_Toc256001287)

[11.93.1 Definitions 934](#_Toc256001288)

[11.93.2 Application of current rate of return guidelines to making of a distribution determination for the subsequent regulatory control period 935](#_Toc256001289)

[Part ZZV Demand Response Mechanism and Ancillary Services Unbundling 936](#_Toc256001290)

[11.94 Rules consequential on the making of the National Electricity Amendment (Demand Response Management and Ancillary Services Unbundling) rule 2016 936](#_Toc256001291)

[11.94.1 Definitions 936](#_Toc256001292)

[11.94.2 Participant fees for Market Ancillary Service Providers 936](#_Toc256001293)

[Part ZZW Local Generation Network Credits 936](#_Toc256001294)

[11.95 Rules consequential on the making of the National Electricity Amendment (Local Generation Network Credits) Rule 2016 936](#_Toc256001295)

[11.95.1 Definitions 936](#_Toc256001296)

[11.95.2 System limitation template 936](#_Toc256001297)

[Part ZZY Emergency Frequency Control Schemes 937](#_Toc256001298)

[11.97 Rules consequent on the making of the National Electricity Amendment (Emergency frequency control schemes) Rule 2017 937](#_Toc256001299)

[11.97.1 Definitions 937](#_Toc256001300)

[11.97.2 Interim frequency operating standards for protected events 937](#_Toc256001301)

[11.97.3 First power system frequency risk review 938](#_Toc256001302)

[11.97.4 AEMO must review existing load shedding procedures 938](#_Toc256001303)

[11.97.5 Load shedding procedures 938](#_Toc256001304)

[Part ZZZ Transmission Connection and Planning Arrangements 939](#_Toc256001305)

[11.98 Rules consequential on the making of the National Electricity Amendment (Transmission Connection and Planning Arrangements) Rule 2017 939](#_Toc256001306)

[11.98.1 Definitions 939](#_Toc256001307)

[11.98.2 Grandfathering of existing dedicated connection assets 940](#_Toc256001308)

[11.98.3 Preparatory steps for registration changes under the Amending Rule 940](#_Toc256001309)

[11.98.4 Participant fees for Dedicated Connection Asset Service Providers 941](#_Toc256001310)

[11.98.5 Existing Connection Agreements 941](#_Toc256001311)

[11.98.6 Connection process 941](#_Toc256001312)

[11.98.7 Transmission Annual Planning Report 942](#_Toc256001313)

[11.98.8 Preservation for adoptive jurisdictions 942](#_Toc256001314)

[Part ZZZA Replacement expenditure planning arrangements 942](#_Toc256001315)

[11.99 Rules consequential on the making of the National Electricity Amendment (Replacement expenditure planning arrangements) Rule 2017 942](#_Toc256001316)

[11.99.1 Definitions 942](#_Toc256001317)

[11.99.2 Interpretation 943](#_Toc256001318)

[11.99.3 Transitional arrangements for affected DNSPs 944](#_Toc256001319)

[11.99.4 Amendments to RIT documentation 944](#_Toc256001320)

[11.99.5 Transitional arrangements relating to excluded projects 944](#_Toc256001321)

[11.99.6 Transitional arrangements relating to Victorian bushfire mitigation projects 944](#_Toc256001322)

[11.99.7 Transitional arrangements relating to review of costs thresholds 945](#_Toc256001323)

[Part ZZZB Managing the rate of change of power system frequency 945](#_Toc256001324)

[11.100 Rules consequential on the making of the National Electricity Amendment (Managing the rate of change of power system frequency) Rule 2017 945](#_Toc256001325)

[11.100.1 Definitions 945](#_Toc256001326)

[11.100.2 Inertia sub-networks 946](#_Toc256001327)

[11.100.3 Inertia requirements methodology 946](#_Toc256001328)

[11.100.4 Inertia requirements 946](#_Toc256001329)

[11.100.5 NSCAS not to be used to meet an inertia shortfall after 1 July 2019 947](#_Toc256001330)

[11.100.6 Inertia network services may be used to meet an NSCAS gap declared in the NSCAS transition period 947](#_Toc256001331)

[11.100.7 Inertia network services made available before the commencement date 948](#_Toc256001332)

[Part ZZZC Managing power system fault levels 948](#_Toc256001333)

[11.101 Rules consequential on the making of the National Electricity Amendment (Managing power system fault levels) Rule 2017 948](#_Toc256001334)

[11.101.1 Definitions 948](#_Toc256001335)

[11.101.2 System strength impact assessment guidelines 950](#_Toc256001336)

[11.101.3 System strength requirements methodology 950](#_Toc256001337)

[11.101.4 System strength requirements 950](#_Toc256001338)

[11.101.5 NSCAS not to be used to meet a fault level shortfall after 1 July 2019 951](#_Toc256001339)

[11.101.6 System strength services may be used to meet an NSCAS gap declared in the NSCAS transition period 951](#_Toc256001340)

[11.101.7 Withdrawal of a system strength-related NSCAS gap already declared 952](#_Toc256001341)

[11.101.8 System strength services made available before the commencement date 952](#_Toc256001342)

[Part ZZZD Generating System Model Guidelines 952](#_Toc256001343)

[11.102 Making of Power System Model Guidelines 952](#_Toc256001344)

[Part ZZZE Five Minute Settlement 952](#_Toc256001345)

[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 952](#_Toc256001346)

[11.103.1 Definitions 952](#_Toc256001347)

[11.103.2 Amendments to procedures 953](#_Toc256001348)

[11.103.3. Exemption for certain metering installations 954](#_Toc256001349)

[11.103.4 New or replacement meters 954](#_Toc256001350)

[11.103.5 Metering installations exempt from metering data provision requirements 955](#_Toc256001351)

[11.103.6 Exemption from meter data storage requirements 955](#_Toc256001352)

[11.103.7 Default offers and bids submitted prior to the commencement date 955](#_Toc256001353)

[Part ZZZF Contestability of energy services 955](#_Toc256001354)

[11.104 Rules consequential on the making of the National Electricity Amendment (Contestability of energy services) Rule 2017 955](#_Toc256001355)

[11.104.1 Definitions 955](#_Toc256001356)

[11.104.2 New guidelines 957](#_Toc256001357)

[11.104.3 Transitional arrangements for application of Distribution Service Classification Guidelines and service classification provisions 957](#_Toc256001358)

[11.104.4 Transitional arrangements for application of Asset Exemption Guidelines, exemption applications and asset exemption decisions 957](#_Toc256001359)

[11.104.5 Transitional arrangements for adjustment in value of regulatory asset base 959](#_Toc256001360)

[Part ZZZG Declaration of lack of reserve conditions 959](#_Toc256001361)

[11.105 Making of lack of reserve declaration guidelines 959](#_Toc256001362)

[11.105.1 Definitions 959](#_Toc256001363)

[11.105.2 Making of lack of reserve declaration guidelines 959](#_Toc256001364)

[Part ZZZH Implementation of demand management incentive scheme 959](#_Toc256001365)

[11.106 Implementation of demand management incentive scheme 959](#_Toc256001366)

[11.106.1 Definitions 959](#_Toc256001367)

[11.106.2 Purpose 960](#_Toc256001368)

[11.106.3 Early application of revised demand management incentive scheme 960](#_Toc256001369)

[Part ZZZI Reinstatement of long notice Reliability and Emergency Reserve Trader 961](#_Toc256001370)

[11.107 Rules consequential on the making of the National Electricity Amendment (Reinstatement of long notice Reliability and Emergency Reserve Trader) Rule 2018 961](#_Toc256001371)

[11.107.1 Definitions 961](#_Toc256001372)

[11.107.2 New RERT guidelines 962](#_Toc256001373)

[11.107.3 Amendments to RERT procedures 965](#_Toc256001374)

[11.107.4 Reserve contracts entered into before the commencement date 965](#_Toc256001375)

[Part ZZZJ Register of distributed energy resources 965](#_Toc256001376)

[11.108 Rules consequential on the making of the National Electricity Amendment (Register of distributed energy resources) Rule 2018 965](#_Toc256001377)

[11.108.1 Definitions 965](#_Toc256001378)

[11.108.2 AEMO to develop and publish DER register information guidelines 966](#_Toc256001379)

[11.108.3 NSPs to provide AEMO with existing DER generation information 966](#_Toc256001380)

[Part ZZZK Generator technical performance standards 966](#_Toc256001381)

[11.109 Rules consequential on the making of the National Electricity Amendment (Generator technical performance standards) Rule 2018 966](#_Toc256001382)

[11.109.1 Definitions 966](#_Toc256001383)

[11.109.2 Application of the Amending Rule to existing connection enquiries 967](#_Toc256001384)

[11.109.3 Application of the Amending Rule to existing applications to connect 968](#_Toc256001385)

[11.109.4 Application of the Amending Rule to existing offers to connect 970](#_Toc256001386)

[11.109.5 Application of the Amending Rule to Existing Connection Agreements 970](#_Toc256001387)

[Part ZZZL Generator three year notice of closure 971](#_Toc256001388)

[11.110 Rules consequential on the making of the National Electricity Amendment (Generator three year notice of closure) Rule 2018 971](#_Toc256001389)

[11.110.1 Definitions 971](#_Toc256001390)

[11.110.2 AER to develop and publish notice of closure exemption guideline 971](#_Toc256001391)

[11.110.3 Application of Amending Rule to AEMO 971](#_Toc256001392)

[11.110.4 Application of Amending Rule to Generators 971](#_Toc256001393)

[Part ZZZM Participant compensation following market suspension 972](#_Toc256001394)

[11.111 Rules consequential on the making of the National Electricity Amendment (Participant compensation following market suspension) Rule 2018 972](#_Toc256001395)

[11.111.1 Definitions 972](#_Toc256001396)

[11.111.2 Market suspension compensation methodology and schedule of benchmark values 972](#_Toc256001397)

[Part ZZZN Global settlement and market reconciliation 972](#_Toc256001398)

[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 972](#_Toc256001399)

[11.112.1 Definitions 972](#_Toc256001400)

[11.112.2 Amendments to AEMO procedures 973](#_Toc256001401)

[11.112.3 AEMO to publish report on unaccounted for energy trends 973](#_Toc256001402)

[11.112.4 Continuation of registration for non-market generators 973](#_Toc256001403)

[11.112.5 Publication of UFE data by AEMO 973](#_Toc256001404)

[11.112.6 Publication of UFE reporting guidelines 974](#_Toc256001405)

[Part ZZZO Metering installation timeframes 974](#_Toc256001406)

[11.113 Rules consequential on making of the National Electricity Amendment (Metering installation timeframes) Rule 2018 974](#_Toc256001407)

[11.113.1 Definitions 974](#_Toc256001408)

[11.113.2 Timeframes for meters to be installed 974](#_Toc256001409)

[Part ZZZP Early implementation of ISP priority projects 975](#_Toc256001410)

[11.114 National Electricity Amendment (Early implementation of ISP priority projects) Rule 2019 975](#_Toc256001411)

[11.114.1 Definitions 975](#_Toc256001412)

[11.114.2 Modifications to clause 5.16.6 for ISP VNI and QNI projects 976](#_Toc256001413)

[11.114.3 Modifications to clause 6A.8.2 for ISP projects 977](#_Toc256001414)

[Part ZZZQ Enhancement to the Reliability and Emergency Reserve Trader 979](#_Toc256001415)

[11.115 Rules consequential on the making of the National Electricity Amendment (Enhancement to the reliability and emergency reserve trader) Rule 2019 979](#_Toc256001416)

[11.115.1 Definitions 979](#_Toc256001417)

[11.115.2 New RERT guidelines 980](#_Toc256001418)

[11.115.3 Amendments to RERT procedures 980](#_Toc256001419)

[11.115.4 Reserve contracts entered into before the commencement date 980](#_Toc256001420)

[11.115.5 Clause 3.20.6 (Reporting on RERT by AEMO) 980](#_Toc256001421)

[Part ZZZR Retailer Reliability Obligation 980](#_Toc256001422)

[11.116 Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation) Rule 2019 980](#_Toc256001423)

[11.116.1 Application 980](#_Toc256001424)

[11.116.2 Reliability Instrument Guidelines 981](#_Toc256001425)

[11.116.3 Forecasting Best Practice Guidelines 981](#_Toc256001426)

[11.116.4 Reliability Forecast Guidelines 981](#_Toc256001427)

[11.116.5 AER Opt-in Guidelines 982](#_Toc256001428)

[11.116.6 Contracts and Firmness Guidelines 982](#_Toc256001429)

[11.116.7 Qualifying contracts under interim Contracts and Firmness Guidelines 982](#_Toc256001430)

[11.116.8 Grandfathering arrangements 982](#_Toc256001431)

[11.116.9 Reliability Compliance Procedures and Guidelines 983](#_Toc256001432)

[11.116.10 MLO Guidelines 984](#_Toc256001433)

[11.116.11 Application of Part G, Divisions 2 – 6 (inclusive) 984](#_Toc256001434)

[11.116.12 Interim deeming of MLO generators and MLO groups 985](#_Toc256001435)

[11.116.13 MLO information template 991](#_Toc256001436)

[11.116.14 Initial MLO register 992](#_Toc256001437)

[11.116.15 Approved MLO products list 992](#_Toc256001438)

[11.116.16 Designated MLO exchange 992](#_Toc256001439)

[11.116.17 Five minute settlement intervals 992](#_Toc256001440)

[11.116.18 Review by AEMC 992](#_Toc256001441)

[Part ZZZS Transparency of new projects 993](#_Toc256001442)

[11.117 Rules consequential on the making of the National Electricity Amendment (Transparency of new projects) Rule 2019 993](#_Toc256001443)

[11.117.1 Definitions 993](#_Toc256001444)

[11.117.2 Generation information page 993](#_Toc256001445)

[11.117.3 Generation information guidelines 993](#_Toc256001446)

[11.117.4 Provision and use of information 994](#_Toc256001447)

[Part ZZZT Demand management incentive scheme and innovation allowance for TNSPs 994](#_Toc256001448)

[11.118 Rules consequential on the making of the National Electricity Amendment (Demand management incentive scheme and innovation allowance for TNSPs) Rule 2019 994](#_Toc256001449)

[11.118.1 Definitions 994](#_Toc256001450)

[11.118.2 AER to develop and publish the demand management innovation allowance mechanism 994](#_Toc256001451)

[Part ZZZU Application of the regional reference node test to the Reliability and Emergency Reserve Trader 995](#_Toc256001452)

[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 995](#_Toc256001453)

[11.119.1 Definitions 995](#_Toc256001454)

[11.119.2 AEMO intervention event in effect on commencement date 995](#_Toc256001455)

[Part ZZZV Improving Transparency and Extending Duration of MT PASA 995](#_Toc256001456)

[11.120 Rules consequential on the making of the National Electricity Amendment (Improving transparency and extending duration of MT PASA) Rule 2020 995](#_Toc256001457)

[11.120.1 AEMO to update spot market operations timetable 995](#_Toc256001458)

[Part ZZZW Victorian jurisdictional derogation – RERT contracting 995](#_Toc256001459)

[11.121 Rules consequential on the making of the National Electricity Amendment (Victorian jurisdictional derogation - RERT contracting) Rule 2020 995](#_Toc256001460)

[11.121.1 Definitions 995](#_Toc256001461)

[11.121.2 Procedures 996](#_Toc256001462)

[Part ZZZX Mandatory primary frequency response 996](#_Toc256001463)

[11.122 Rules consequential on the making of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020 996](#_Toc256001464)

[11.122.1 Definitions 996](#_Toc256001465)

[11.122.2 Interim Primary Frequency Response Requirements 996](#_Toc256001466)

[11.122.3 Action taken prior to commencement 997](#_Toc256001467)

[Part ZZZY System restart services, standards and testing 997](#_Toc256001468)

[11.123 Rules consequential on the making of the National Electricity Amendment (System restart services, standards and testing) Rule 2020 997](#_Toc256001469)

[11.123.1 Definitions 997](#_Toc256001470)

[11.123.2 SRAS Guideline 997](#_Toc256001471)

[11.123.3 System restart standard 998](#_Toc256001472)

[11.123.4 Communication protocols 998](#_Toc256001473)

[11.123.5 System restart tests 998](#_Toc256001474)

[Part ZZZZ Introduction of metering coordinator planned interruptions 998](#_Toc256001475)

[11.124 Rules consequential on the making of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020 998](#_Toc256001476)

[11.124.1 Definitions 998](#_Toc256001477)

[11.124.2 Amendments of the metrology procedure 999](#_Toc256001478)

[11.124.3 Market Settlement and Transfer Solutions Procedures 999](#_Toc256001479)

[11.124.4 Requirements of the metrology procedure 999](#_Toc256001480)

[Part ZZZZA Wholesale demand response 999](#_Toc256001481)

[11.125 Rules consequential on the making of the National Electricity Amendment (Wholesale demand response mechanism) Rule 2020 999](#_Toc256001482)

[11.125.1 Definitions 999](#_Toc256001483)

[11.125.2 Wholesale demand response guidelines 1000](#_Toc256001484)

[11.125.3 Baseline methodologies 1001](#_Toc256001485)

[11.125.4 Wholesale demand response participation guidelines 1001](#_Toc256001486)

[11.125.5 Extension of time for registration and aggregation 1001](#_Toc256001487)

[11.125.6 Amendments to AEMO, AER and AEMC documents 1001](#_Toc256001488)

[11.125.7 Amendments to the demand side participation information guidelines 1002](#_Toc256001489)

[11.125.8 Amendment to RERT guidelines 1002](#_Toc256001490)

[11.125.9 Renaming of Market Ancillary Service Providers 1003](#_Toc256001491)

[11.125.10 Wholesale demand response annual reporting 1003](#_Toc256001492)

[Part ZZZZB Integrated System Plan Rules 1003](#_Toc256001493)

[11.126 Rules consequential on the making of the National Electricity Amendment (Integrated System Plan) Rule 2020 1003](#_Toc256001494)

[11.126.1 Definitions 1003](#_Toc256001495)

[11.126.2 2020 Integrated System Plan 1004](#_Toc256001496)

[11.126.3 Existing actionable ISP projects 1004](#_Toc256001497)

[11.126.4 Existing actionable ISP projects at the clause 5.16.6 stage 1004](#_Toc256001498)

[11.126.5 Existing actionable ISP projects prior to the clause 5.16.6 stage 1005](#_Toc256001499)

[11.126.6 Existing RIT-T proponent has published a PSCR but not a PADR 1005](#_Toc256001500)

[11.126.7 Cost Benefit Analysis Guidelines 1006](#_Toc256001501)

[11.126.8 Forecasting Best Practice Guidelines 1006](#_Toc256001502)

[11.126.9 Methodologies and reports 1006](#_Toc256001503)

[11.126.10 AEMC review of ISP framework 1006](#_Toc256001504)

[11A. NT Savings and Transitional Rules 1011](#_Toc256001505)

[Part A Savings and transitional rules for Chapter 5 1011](#_Toc256001506)

[11A.1 Chapter 5 provisions 1011](#_Toc256001507)

[Part B Savings and transitional rules for Chapter 5A 1011](#_Toc256001508)

[11A.2 Model standing offers 1011](#_Toc256001509)

[11A.2.1 Definitions 1011](#_Toc256001510)

[11A.2.2 Extended meaning of some terms 1012](#_Toc256001511)

[11A.2.3 Transitional operation of relevant provisions 1012](#_Toc256001512)

[11A.2.4 Exclusions, qualifications and modifications 1012](#_Toc256001513)

[11A.2.5 References 1013](#_Toc256001514)

[Part C Savings and transitional rules for Chapter 7A 1013](#_Toc256001515)

[11A.3 Existing metering installations 1014](#_Toc256001516)

[11A.4 Testing metering installations 1014](#_Toc256001517)

[11A.5 Metering data services database and related requirements 1015](#_Toc256001518)

[11A.6 Communication guideline 1016](#_Toc256001519)

[11A.7 Timeframes for meters to be installed 1016](#_Toc256001520)