**National Electricity Rules As in force in the Northern Territory Version 67**

**Historical Information**

This version of the National Electricity Rules As in force in the Northern Territory was current from 11 March 2021 to 20 March 2021.

National Electricity Rules As in force in the Northern Territory

Version 67

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 11 March 2021.

This consolidated version of the NT NER reflects the current version of the National Electricity Rules (version 159) 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)

[1.3.1A1 Definitions 3](#_Toc256000007)

[1.3.1 Introduction 3](#_Toc256000008)

[1.3.2 Parts, Divisions and Subdivisions 3](#_Toc256000009)

[1.3.3 Rules, clauses, paragraphs, subparagraphs and other items 4](#_Toc256000010)

[1.4 Effect of renumbering of provisions of the Rules 5](#_Toc256000011)

[1.5 [Deleted] 5](#_Toc256000012)

[1.6 [Deleted] 5](#_Toc256000013)

[1.7 Interpretation 5](#_Toc256000014)

[1.7.1 General 5](#_Toc256000015)

[1.7.1A Inconsistency with National Measurement Act 6](#_Toc256000016)

[1.7.1B Instruments 6](#_Toc256000017)

[1.8 Notices 7](#_Toc256000018)

[1.8.1 Service of notices under the Rules 7](#_Toc256000019)

[1.8.2 Time of service 7](#_Toc256000020)

[1.8.3 Counting of days 8](#_Toc256000021)

[1.8.4 Reference to addressee 8](#_Toc256000022)

[1.9 Retention of Records and Documents 8](#_Toc256000023)

[1.9A NTESMO’s costs in connection with these Rules 8](#_Toc256000024)

[1.10 [Deleted] 8](#_Toc256000025)

[1.11 AEMO Rule Funds 8](#_Toc256000026)

[2. Registered Participants and Registration 13](#_Toc256000027)

[2A. Regional Structures 17](#_Toc256000028)

[3. Market Rules 21](#_Toc256000029)

[4. Power System Security 25](#_Toc256000030)

[4A. Retailer Reliability Obligation 29](#_Toc256000031)

[Part A Introduction 29](#_Toc256000032)

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

[4A.A.1 Definitions 29](#_Toc256000034)

[4A.A.2 Forecast reliability gap materiality 32](#_Toc256000035)

[4A.A.3 One-in-two year peak demand forecast 32](#_Toc256000036)

[4A.A.4 Peak demand 33](#_Toc256000037)

[Part B Reliability Forecasts 33](#_Toc256000038)

[4A.B.1 Reliability forecast 33](#_Toc256000039)

[4A.B.2 Reliability forecast components 34](#_Toc256000040)

[4A.B.3 Supporting materials 34](#_Toc256000041)

[4A.B.4 Reliability Forecast Guidelines 34](#_Toc256000042)

[4A.B.5 AER Forecasting Best Practice Guidelines 36](#_Toc256000043)

[Part C Reliability Instruments 36](#_Toc256000044)

[Division 1 AEMO request for a reliability instrument 36](#_Toc256000045)

[4A.C.1 AEMO request for a reliability instrument 36](#_Toc256000046)

[4A.C.2 AEMO request for a T-3 reliability instrument 36](#_Toc256000047)

[4A.C.3 AEMO request for a T-1 reliability instrument 37](#_Toc256000048)

[4A.C.4 Related T-3 reliability instrument 37](#_Toc256000049)

[4A.C.5 Notification of a closed forecast reliability gap at T-1 38](#_Toc256000050)

[4A.C.6 Corrections to a request 38](#_Toc256000051)

[4A.C.7 Withdrawing a request 38](#_Toc256000052)

[Division 2 AER making of a reliability instrument 39](#_Toc256000053)

[4A.C.8 AER making of a reliability instrument 39](#_Toc256000054)

[4A.C.9 When a decision by the AER must be made 39](#_Toc256000055)

[4A.C.10 T-1 reliability instrument components 39](#_Toc256000056)

[4A.C.11 AER decision making criteria 39](#_Toc256000057)

[4A.C.12 Reliability Instrument Guidelines 40](#_Toc256000058)

[Part D Liable Entities 40](#_Toc256000059)

[4A.D.1 Application 40](#_Toc256000060)

[4A.D.2 Liable entities 40](#_Toc256000061)

[4A.D.3 New entrants 41](#_Toc256000062)

[4A.D.4 Application to register as large opt-in customer 41](#_Toc256000063)

[4A.D.5 Application to register as prescribed opt-in customer 42](#_Toc256000064)

[4A.D.6 Thresholds 43](#_Toc256000065)

[4A.D.7 Opt-in cut-off day 43](#_Toc256000066)

[4A.D.8 AER approval of applications 43](#_Toc256000067)

[4A.D.9 AER opt-in register 44](#_Toc256000068)

[4A.D.10 Changes to register 44](#_Toc256000069)

[4A.D.11 AER register taken to be correct 45](#_Toc256000070)

[4A.D.12 AEMO Opt-In Procedures 45](#_Toc256000071)

[4A.D.13 AER Opt-In Guidelines 45](#_Toc256000072)

[Part E Qualifying Contracts and Net Contract Position 46](#_Toc256000073)

[Division 1 Key concepts 46](#_Toc256000074)

[4A.E.1 Qualifying contracts 46](#_Toc256000075)

[4A.E.2 Net contract position 47](#_Toc256000076)

[Division 2 Firmness methodologies 48](#_Toc256000077)

[4A.E.3 Firmness methodology 48](#_Toc256000078)

[4A.E.4 Types of methodologies 48](#_Toc256000079)

[4A.E.5 Approval of a bespoke firmness methodology 48](#_Toc256000080)

[Division 3 Reporting net contract position 49](#_Toc256000081)

[4A.E.6 Reporting requirements 49](#_Toc256000082)

[Division 4 Adjustment of net contract position 50](#_Toc256000083)

[4A.E.7 Adjustment of net contract position 50](#_Toc256000084)

[Division 5 Contracts and Firmness Guidelines 51](#_Toc256000085)

[4A.E.8 Contracts and Firmness Guidelines 51](#_Toc256000086)

[Part F Compliance with the Retailer Reliability Obligation 52](#_Toc256000087)

[Division 1 Application 52](#_Toc256000088)

[4A.F.1 Application 52](#_Toc256000089)

[Division 2 Key concepts 52](#_Toc256000090)

[4A.F.2 Compliance TI 52](#_Toc256000091)

[4A.F.3 Share of one-in-two year peak demand forecast 53](#_Toc256000092)

[Division 3 AEMO notifications to AER 54](#_Toc256000093)

[4A.F.4 AEMO notification of compliance trading intervals 54](#_Toc256000094)

[4A.F.5 AEMO compliance report 54](#_Toc256000095)

[Division 4 AER assessment of compliance 55](#_Toc256000096)

[4A.F.6 Reliability Compliance Procedures and Guidelines 55](#_Toc256000097)

[4A.F.7 AER assessment 55](#_Toc256000098)

[4A.F.8 AER notification to AEMO for PoLR costs 55](#_Toc256000099)

[Division 5 Miscellaneous 56](#_Toc256000100)

[4A.F.9 Demand response information 56](#_Toc256000101)

[4A.F.10 PoLR cost procedures 56](#_Toc256000102)

[Part G Market Liquidity Obligation 56](#_Toc256000103)

[Division 1 Preliminary 56](#_Toc256000104)

[4A.G.1 Overview of Part G 56](#_Toc256000105)

[4A.G.2 Purpose and application 57](#_Toc256000106)

[Division 2 Market Generators and trading right holders 57](#_Toc256000107)

[4A.G.3 Market Generators and generator capacity 57](#_Toc256000108)

[4A.G.4 Trading rights and trading right holders 58](#_Toc256000109)

[Division 3 Trading groups 58](#_Toc256000110)

[4A.G.5 Trading group 58](#_Toc256000111)

[4A.G.6 Controlling entity 59](#_Toc256000112)

[Division 4 Traced capacity and trading group capacity 61](#_Toc256000113)

[4A.G.7 Traced capacity 61](#_Toc256000114)

[4A.G.8 Tracing capacity to trading groups 61](#_Toc256000115)

[4A.G.9 Trading group capacity 61](#_Toc256000116)

[Division 5 MLO generators and MLO groups 62](#_Toc256000117)

[4A.G.10 MLO group 62](#_Toc256000118)

[4A.G.11 MLO generator 62](#_Toc256000119)

[Division 6 Market Generator information 62](#_Toc256000120)

[4A.G.12 MLO register 62](#_Toc256000121)

[4A.G.13 Market Generator information 63](#_Toc256000122)

[4A.G.14 Applications to the AER 64](#_Toc256000123)

[Division 7 Liquidity period 65](#_Toc256000124)

[4A.G.15 Notices prior to a liquidity period 65](#_Toc256000125)

[4A.G.16 Duration of liquidity period 65](#_Toc256000126)

[Division 8 Liquidity obligation 66](#_Toc256000127)

[4A.G.17 Liquidity obligation 66](#_Toc256000128)

[4A.G.18 Performing a liquidity obligation 66](#_Toc256000129)

[4A.G.19 Volume limits 68](#_Toc256000130)

[4A.G.20 Appointment of MLO nominee 68](#_Toc256000131)

[4A.G.21 Exemptions 69](#_Toc256000132)

[Division 9 MLO products and MLO exchange 70](#_Toc256000133)

[4A.G.22 MLO products 70](#_Toc256000134)

[4A.G.23 MLO exchange 70](#_Toc256000135)

[Division 10 Miscellaneous 71](#_Toc256000136)

[4A.G.24 MLO compliance and reporting 71](#_Toc256000137)

[4A.G.25 MLO Guidelines 72](#_Toc256000138)

[Part H Voluntary Book Build 72](#_Toc256000139)

[4A.H.1 Purpose and application 72](#_Toc256000140)

[4A.H.2 Book Build Procedures 73](#_Toc256000141)

[4A.H.3 Commencement of voluntary book build 74](#_Toc256000142)

[4A.H.4 Participation in the voluntary book build 74](#_Toc256000143)

[4A.H.5 Book build fees 74](#_Toc256000144)

[4A.H.6 Reporting 75](#_Toc256000145)

[5. Network Connection Access, Planning and Expansion 79](#_Toc256000146)

[Part A Introduction 79](#_Toc256000147)

[5.1 Introduction to Chapter 5 79](#_Toc256000148)

[5.1.1 Structure of this Chapter 79](#_Toc256000149)

[5.1.2 Overview of Part B and connection and access under the Rules 79](#_Toc256000150)

[5.1.3 Definitions 82](#_Toc256000151)

[Part B Network Connection and Access 83](#_Toc256000152)

[5.1A Introduction to Part B 83](#_Toc256000153)

[5.1A.1 Purpose and Application 83](#_Toc256000154)

[5.1A.2 Principles 85](#_Toc256000155)

[5.1A.3 Dedicated connection asset service providers 85](#_Toc256000156)

[5.2 Obligations 86](#_Toc256000157)

[5.2.1 Obligations of Registered Participants 86](#_Toc256000158)

[5.2.2 Connection agreements 86](#_Toc256000159)

[5.2.3 Obligations of network service providers 87](#_Toc256000160)

[5.2.3A Obligations of Market Network Service Providers 92](#_Toc256000161)

[5.2.4 Obligations of customers 93](#_Toc256000162)

[5.2.5 Obligations of Generators 95](#_Toc256000163)

[5.2.6 Obligations of AEMO 96](#_Toc256000164)

[5.2.6A AEMO review of technical requirements for connection 97](#_Toc256000165)

[5.2.7 Obligations of Dedicated Connection Asset Service Providers 98](#_Toc256000166)

[5.2A Transmission network connection and access 98](#_Toc256000167)

[5.2A.1 Application 98](#_Toc256000168)

[5.2A.2 Relevant assets 99](#_Toc256000169)

[5.2A.3 Connection and access to transmission services 99](#_Toc256000170)

[5.2A.4 Transmission services related to connection 101](#_Toc256000171)

[5.2A.5 Publication and provision of information 104](#_Toc256000172)

[5.2A.6 Negotiating principles 105](#_Toc256000173)

[5.2A.7 Third party IUSAs 105](#_Toc256000174)

[5.2A.8 Access framework for large dedicated connection assets 107](#_Toc256000175)

[5.3 Establishing or Modifying Connection 109](#_Toc256000176)

[5.3.1 Process and procedures 109](#_Toc256000177)

[5.3.1A Application of rule to connection of embedded generating units 109](#_Toc256000178)

[5.3.2 Connection enquiry 110](#_Toc256000179)

[5.3.3 Response to connection enquiry 111](#_Toc256000180)

[5.3.4 Application for connection 115](#_Toc256000181)

[5.3.4A Negotiated access standards 117](#_Toc256000182)

[5.3.4B System strength remediation for new connections 120](#_Toc256000183)

[5.3.5 Preparation of offer to connect 123](#_Toc256000184)

[5.3.6 Offer to connect 124](#_Toc256000185)

[5.3.7 Finalisation of connection agreements and network operating agreements 127](#_Toc256000186)

[5.3.8 Provision and use of information 129](#_Toc256000187)

[5.3.9 Procedure to be followed by a Generator proposing to alter a generating system 130](#_Toc256000188)

[5.3.10 Acceptance of performance standards for generating plant that is altered 132](#_Toc256000189)

[5.3.11 Notification of request to change normal voltage 133](#_Toc256000190)

[5.3A Establishing or modifying connection - embedded generation 133](#_Toc256000191)

[5.3A.A1 Definitions 133](#_Toc256000192)

[5.3A.1 Application of rule 5.3A 134](#_Toc256000193)

[5.3A.2 Miscellaneous 134](#_Toc256000194)

[5.3A.3 Publication of Information 135](#_Toc256000195)

[5.3A.4 Fees 137](#_Toc256000196)

[5.3A.5 Enquiry 138](#_Toc256000197)

[5.3A.6 Response to Enquiry 138](#_Toc256000198)

[5.3A.7 Preliminary Response to Enquiry 139](#_Toc256000199)

[5.3A.8 Detailed Response to Enquiry 140](#_Toc256000200)

[5.3A.9 Application for connection 141](#_Toc256000201)

[5.3A.10 Preparation of offer to connect 142](#_Toc256000202)

[5.3A.11 Technical Dispute 143](#_Toc256000203)

[5.3A.12 Network support payments and functions 143](#_Toc256000204)

[5.3AA Access arrangements relating to Distribution Networks 143](#_Toc256000205)

[5.3B Application for connection to declared shared network 147](#_Toc256000206)

[5.4 Independent Engineer 147](#_Toc256000207)

[5.4.1 Application 147](#_Toc256000208)

[5.4.2 Establishment of a pool 148](#_Toc256000209)

[5.4.3 Initiating the Independent Engineer process 148](#_Toc256000210)

[5.4.4 Referral to the Adviser 149](#_Toc256000211)

[5.4.5 Proceedings and decisions of the Independent Engineer 150](#_Toc256000212)

[5.4.6 Costs of the Independent Engineer 151](#_Toc256000213)

[5.4A [Deleted] 151](#_Toc256000214)

[5.4AA [Deleted] 151](#_Toc256000215)

[5.5 Commercial arbitration for prescribed and negotiated transmission services and large DCA services 151](#_Toc256000216)

[5.5.1 Application 151](#_Toc256000217)

[5.5.2 Notification of dispute 152](#_Toc256000218)

[5.5.3 Appointment of commercial arbitrator 152](#_Toc256000219)

[5.5.4 Procedures of commercial arbitrator 153](#_Toc256000220)

[5.5.5 Powers of commercial arbitrator in determining disputes 153](#_Toc256000221)

[5.5.6 Determination of disputes 154](#_Toc256000222)

[5.5.7 Costs of dispute 155](#_Toc256000223)

[5.5.8 Enforcement of agreement or determination and requirement for reasons 156](#_Toc256000224)

[5.5.9 Miscellaneous 156](#_Toc256000225)

[5.5A  [Deleted] 156](#_Toc256000226)

[Part C Post-Connection Agreement matters 156](#_Toc256000227)

[5.6 Design of Connected Equipment 156](#_Toc256000228)

[5.6.1 Application 156](#_Toc256000229)

[5.6.2 Advice of inconsistencies 157](#_Toc256000230)

[5.6.3 Additional information 157](#_Toc256000231)

[5.6.4 Advice on possible non-compliance 157](#_Toc256000232)

[5.6A  [Deleted] 158](#_Toc256000233)

[5.7 Inspection and Testing 158](#_Toc256000234)

[5.7.1 Right of entry and inspection 158](#_Toc256000235)

[5.7.2 Right of testing 160](#_Toc256000236)

[5.7.3 Tests to demonstrate compliance with connection requirements for generators 161](#_Toc256000237)

[5.7.3A Tests to demonstrate compliance with system strength remediation schemes 163](#_Toc256000238)

[5.7.4 Routine testing of protection equipment 164](#_Toc256000239)

[5.7.5 Testing by Registered Participants of their own plant requiring changes to normal operation 166](#_Toc256000240)

[5.7.6 Tests of generating units requiring changes to normal operation 168](#_Toc256000241)

[5.7.7 Inter-network power system tests 169](#_Toc256000242)

[5.7.8 Contestable IUSA components 175](#_Toc256000243)

[5.8 Commissioning 175](#_Toc256000244)

[5.8.1 Requirement to inspect and test equipment 175](#_Toc256000245)

[5.8.2 Co-ordination during commissioning 176](#_Toc256000246)

[5.8.3 Control and protection settings for equipment 176](#_Toc256000247)

[5.8.4 Commissioning program 177](#_Toc256000248)

[5.8.5 Commissioning tests 178](#_Toc256000249)

[5.9 Disconnection and Reconnection 178](#_Toc256000250)

[5.9.1 Voluntary disconnection 178](#_Toc256000251)

[5.9.2 Decommissioning procedures 179](#_Toc256000252)

[5.9.3 Involuntary disconnection 179](#_Toc256000253)

[5.9.4 Direction to disconnect 180](#_Toc256000254)

[5.9.4A Notification of disconnection 181](#_Toc256000255)

[5.9.5 Disconnection during an emergency 181](#_Toc256000256)

[5.9.6 Obligation to reconnect 181](#_Toc256000257)

[Part D Network Planning and Expansion 182](#_Toc256000258)

[5.10 Network development generally 182](#_Toc256000259)

[5.10.1 Content of Part D 182](#_Toc256000260)

[5.10.2 Definitions 183](#_Toc256000261)

[5.10.3 Interpretation 188](#_Toc256000262)

[5.11 Forecasts of connection to transmission network and identification of system limitations 188](#_Toc256000263)

[5.11.1 Forecasts for connection to transmission network 188](#_Toc256000264)

[5.11.2 Identification of network limitations 189](#_Toc256000265)

[5.12 Transmission annual planning process 189](#_Toc256000266)

[5.12.1 Transmission annual planning review 189](#_Toc256000267)

[5.12.2 Transmission Annual Planning Report 190](#_Toc256000268)

[5.13 Distribution annual planning process 194](#_Toc256000269)

[5.13.1 Distribution annual planning review 194](#_Toc256000270)

[5.13.2 Distribution Annual Planning Report 196](#_Toc256000271)

[5.13.3 Distribution system limitation template 196](#_Toc256000272)

[5.13A Distribution zone substation information 197](#_Toc256000273)

[5.14 Joint planning 200](#_Toc256000274)

[5.14.1 Joint planning obligations of Transmission Network Service Providers and Distribution Network Service Providers 200](#_Toc256000275)

[5.14.2 Joint planning obligations of Distribution Network Service Providers and Distribution Network Service Providers 201](#_Toc256000276)

[5.14.3 Joint planning obligations of Transmission Network Service Providers 202](#_Toc256000277)

[5.14.4 Joint planning by Transmission Network Service Providers and AEMO 202](#_Toc256000278)

[5.14A Joint planning in relation to retirement or de-ratings of network assets forming part of the Declared Shared Network 203](#_Toc256000279)

[5.14B TAPR Guidelines 203](#_Toc256000280)

[5.14B.1 Development of TAPR Guidelines 203](#_Toc256000281)

[5.15 Regulatory investment tests generally 203](#_Toc256000282)

[5.15.1 Interested parties 203](#_Toc256000283)

[5.15.2 Identification of a credible option 203](#_Toc256000284)

[5.15.3 Review of costs thresholds 205](#_Toc256000285)

[5.15.4 Costs determinations 207](#_Toc256000286)

[5.15A Regulatory investment test for transmission 207](#_Toc256000287)

[5.15A.1 General principles and application 207](#_Toc256000288)

[5.15A.2 Principles for RIT-T projects which are not actionable ISP projects 208](#_Toc256000289)

[5.15A.3 Principles for actionable ISP projects 210](#_Toc256000290)

[5.16 Application of RIT-T to RIT-T projects which are not actionable ISP projects 212](#_Toc256000291)

[5.16.1 Application 212](#_Toc256000292)

[5.16.2 Regulatory investment test for transmission application guidelines 212](#_Toc256000293)

[5.16.3 Investments subject to the regulatory investment test for transmission 214](#_Toc256000294)

[5.16.4 Regulatory investment test for transmission procedures 216](#_Toc256000295)

[5.16.5 [Deleted] 222](#_Toc256000296)

[5.16.6 [Deleted] 222](#_Toc256000297)

[5.16A Application of the RIT-T to actionable ISP Projects 222](#_Toc256000298)

[5.16A.1 Application 222](#_Toc256000299)

[5.16A.2 Cost Benefit Analysis Guidelines 222](#_Toc256000300)

[5.16A.3 Actionable ISP projects subject to the RIT-T 223](#_Toc256000301)

[5.16A.4 Regulatory investment test for transmission procedures 224](#_Toc256000302)

[5.16A.5 Actionable ISP project trigger event 226](#_Toc256000303)

[5.16B Disputes in relation to application of regulatory investment test for transmission 227](#_Toc256000304)

[5.17 Regulatory investment test for distribution 229](#_Toc256000305)

[5.17.1 Principles 229](#_Toc256000306)

[5.17.2 Regulatory investment test for distribution application guidelines 231](#_Toc256000307)

[5.17.3 Projects subject to the regulatory investment test for distribution 233](#_Toc256000308)

[5.17.4 Regulatory investment test for distribution procedures 235](#_Toc256000309)

[5.17.5 Disputes in relation to application of regulatory investment test for distribution 240](#_Toc256000310)

[5.18 Construction of funded augmentations 241](#_Toc256000311)

[5.18A Generator connections 242](#_Toc256000312)

[5.18A.1 Definitions 242](#_Toc256000313)

[5.18A.2 Register of generator connections 242](#_Toc256000314)

[5.18A.3 Impact assessment of large generator connections 243](#_Toc256000315)

[5.18B Completed embedded generation projects 244](#_Toc256000316)

[5.18B.1 Definitions 244](#_Toc256000317)

[5.18B.2 Register of completed embedded generation projects 245](#_Toc256000318)

[5.19 SENE Design and Costing Study 245](#_Toc256000319)

[5.19.1 Definitions 245](#_Toc256000320)

[5.19.2 Interpretation 246](#_Toc256000321)

[5.19.3 Request for SENE Design and Costing Study 246](#_Toc256000322)

[5.19.4 Content of SENE Design and Costing Study 247](#_Toc256000323)

[5.19.5 Co-operation of other Network Service Providers 248](#_Toc256000324)

[5.19.6 Publication of SENE Design and Costing Study report 248](#_Toc256000325)

[5.19.7 Provision and use of information 249](#_Toc256000326)

[5.20 System security reports 249](#_Toc256000327)

[5.20.1 Definitions 249](#_Toc256000328)

[5.20.2 Publication of NSCAS methodology 250](#_Toc256000329)

[5.20.3 Publication of NSCAS Report 250](#_Toc256000330)

[5.20.4 Inertia requirements methodology 250](#_Toc256000331)

[5.20.5 Publication of Inertia Report 251](#_Toc256000332)

[5.20.6 Publication of system strength requirements methodologies 251](#_Toc256000333)

[5.20.7 Publication of System Strength Report 252](#_Toc256000334)

[5.20A Frequency management planning 252](#_Toc256000335)

[5.20A.1 Power system frequency risk review 252](#_Toc256000336)

[5.20A.2 Power system frequency risk review process 253](#_Toc256000337)

[5.20A.3 Power system frequency risk review report 254](#_Toc256000338)

[5.20A.4 Request for protected event declaration 254](#_Toc256000339)

[5.20A.5 Request to revoke a protected event declaration 255](#_Toc256000340)

[5.20B Inertia sub-networks and requirements 255](#_Toc256000341)

[5.20B.1 Boundaries of inertia sub-networks 255](#_Toc256000342)

[5.20B.2 Inertia requirements 256](#_Toc256000343)

[5.20B.3 Inertia shortfalls 256](#_Toc256000344)

[5.20B.4 Inertia Service Provider to make available inertia services 257](#_Toc256000345)

[5.20B.5 Inertia support activities 260](#_Toc256000346)

[5.20B.6 Inertia network services information and approvals 261](#_Toc256000347)

[5.20C System strength requirements 263](#_Toc256000348)

[5.20C.1 System strength requirements 263](#_Toc256000349)

[5.20C.2 Fault level shortfalls 263](#_Toc256000350)

[5.20C.3 System Strength Service Provider to make available system strength services 264](#_Toc256000351)

[5.20C.4 System strength services information and approvals 266](#_Toc256000352)

[5.21 AEMO's obligation to publish information and guidelines and provide advice 267](#_Toc256000353)

[5.22 Integrated System Plan 269](#_Toc256000354)

[5.22.1 Duty of AEMO to make Integrated System Plan 269](#_Toc256000355)

[5.22.2 Purpose of the ISP 269](#_Toc256000356)

[5.22.3 Power system needs 269](#_Toc256000357)

[5.22.4 ISP timetable 270](#_Toc256000358)

[5.22.5 Guidelines relevant to the ISP 270](#_Toc256000359)

[5.22.6 Content of Integrated System Plan 272](#_Toc256000360)

[5.22.7 ISP consumer panel 273](#_Toc256000361)

[5.22.8 Preliminary consultations 274](#_Toc256000362)

[5.22.9 AER transparency review on Inputs, Assumptions and Scenarios Report 275](#_Toc256000363)

[5.22.10 Preparation of ISP 275](#_Toc256000364)

[5.22.11 Draft Integrated System Plan 278](#_Toc256000365)

[5.22.12 Non-network options 278](#_Toc256000366)

[5.22.13 AER transparency review of draft Integrated System Plan 279](#_Toc256000367)

[5.22.14 Final Integrated System Plan 280](#_Toc256000368)

[5.22.15 ISP updates 280](#_Toc256000369)

[5.22.16 ISP database 281](#_Toc256000370)

[5.22.17 Jurisdictional planning bodies and jurisdictional planning representatives 282](#_Toc256000371)

[5.22.18 NTP Functions 282](#_Toc256000372)

[5.23 Disputes in relation to an ISP 282](#_Toc256000373)

[5.23.1 Disputing party 282](#_Toc256000374)

[5.23.2 Initial AER review 283](#_Toc256000375)

[5.23.3 Provision of further information 283](#_Toc256000376)

[5.23.4 AER determination 284](#_Toc256000377)

[Schedule 5.1a System standards 285](#_Toc256000378)

[S5.1a.1 Purpose 285](#_Toc256000379)

[S5.1a.2 Frequency 285](#_Toc256000380)

[S5.1a.3 System stability 285](#_Toc256000381)

[S5.1a.4 Power frequency voltage 286](#_Toc256000382)

[S5.1a.5 Voltage fluctuations 286](#_Toc256000383)

[S5.1a.6 Voltage waveform distortion 287](#_Toc256000384)

[S5.1a.7 Voltage unbalance 287](#_Toc256000385)

[S5.1a.8 Fault clearance times 288](#_Toc256000386)

[Schedule 5.1 Network Performance Requirements to be Provided or Co-ordinated by Network Service Providers 289](#_Toc256000387)

[S5.1.1 Introduction 289](#_Toc256000388)

[S5.1.2 Network reliability 290](#_Toc256000389)

[S5.1.2.1 Credible contingency events 290](#_Toc256000390)

[S5.1.2.2 Network service within a region 291](#_Toc256000391)

[S5.1.2.3 Network service between regions 292](#_Toc256000392)

[S5.1.3 Frequency variations 293](#_Toc256000393)

[S5.1.4 Magnitude of power frequency voltage 293](#_Toc256000394)

[S5.1.5 Voltage fluctuations 294](#_Toc256000395)

[S5.1.6 Voltage harmonic or voltage notching distortion 295](#_Toc256000396)

[S5.1.7 Voltage unbalance 296](#_Toc256000397)

[S5.1.8 Stability 297](#_Toc256000398)

[S5.1.9 Protection systems and fault clearance times 298](#_Toc256000399)

[S5.1.10 Load, generation and network control facilities 301](#_Toc256000400)

[S5.1.10.1 General 301](#_Toc256000401)

[S5.1.10.1a Emergency frequency control schemes 301](#_Toc256000402)

[S5.1.10.2 Distribution Network Service Providers 303](#_Toc256000403)

[S5.1.10.3 Transmission Network Service Providers 303](#_Toc256000404)

[S5.1.11 Automatic reclosure of transmission or distribution lines 303](#_Toc256000405)

[S5.1.12 Rating of transmission lines and equipment 303](#_Toc256000406)

[S5.1.13 Information to be provided 304](#_Toc256000407)

[Schedule 5.2 Conditions for Connection of Generators 304](#_Toc256000408)

[S5.2.1 Outline of requirements 304](#_Toc256000409)

[S5.2.2 Application of Settings 305](#_Toc256000410)

[S5.2.3 Technical matters to be coordinated 306](#_Toc256000411)

[S5.2.4 Provision of information 307](#_Toc256000412)

[S5.2.5 Technical requirements 309](#_Toc256000413)

[S5.2.5.1 Reactive power capability 309](#_Toc256000414)

[S5.2.5.2 Quality of electricity generated 311](#_Toc256000415)

[S5.2.5.3 Generating system response to frequency disturbances 312](#_Toc256000416)

[S5.2.5.4 Generating system response to voltage disturbances 314](#_Toc256000417)

[S5.2.5.5 Generating system response to disturbances following contingency events 316](#_Toc256000418)

[S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation 324](#_Toc256000419)

[S5.2.5.7 Partial load rejection 324](#_Toc256000420)

[S5.2.5.8 Protection of generating systems from power system disturbances 325](#_Toc256000421)

[S5.2.5.9 Protection systems that impact on power system security 326](#_Toc256000422)

[S5.2.5.10 Protection to trip plant for unstable operation 328](#_Toc256000423)

[S5.2.5.11 Frequency control 329](#_Toc256000424)

[S5.2.5.12 Impact on network capability 332](#_Toc256000425)

[S5.2.5.13 Voltage and reactive power control 333](#_Toc256000426)

[S5.2.5.14 Active power control 339](#_Toc256000427)

[S5.2.6 Monitoring and control requirements 341](#_Toc256000428)

[S5.2.6.1 Remote Monitoring 341](#_Toc256000429)

[S5.2.6.2 Communications equipment 343](#_Toc256000430)

[S5.2.7 Power station auxiliary supplies 344](#_Toc256000431)

[S5.2.8 Fault current 345](#_Toc256000432)

[Schedule 5.3 Conditions for Connection of Customers 346](#_Toc256000433)

[S5.3.1a Introduction to the schedule 346](#_Toc256000434)

[S5.3.1 Information 347](#_Toc256000435)

[S5.3.2 Design standards 349](#_Toc256000436)

[S5.3.3 Protection systems and settings 349](#_Toc256000437)

[S5.3.4 Settings of protection and control systems 350](#_Toc256000438)

[S5.3.5 Power factor requirements 351](#_Toc256000439)

[S5.3.6 Balancing of load currents 352](#_Toc256000440)

[S5.3.7 Voltage fluctuations 352](#_Toc256000441)

[S5.3.8 Harmonics and voltage notching 353](#_Toc256000442)

[S5.3.9 Design requirements for Network Users' substations 353](#_Toc256000443)

[S5.3.10 Load shedding facilities 354](#_Toc256000444)

[Schedule 5.3a Conditions for connection of Market Network Services 354](#_Toc256000445)

[S5.3a.1a Introduction to the schedule 354](#_Toc256000446)

[S5.3a.1 Provision of Information 355](#_Toc256000447)

[S5.3a.2 Application of settings 357](#_Toc256000448)

[S5.3a.3 Technical matters to be co-ordinated 358](#_Toc256000449)

[S5.3a.4 Monitoring and control requirements 358](#_Toc256000450)

[S5.3a.4.1 Remote Monitoring 358](#_Toc256000451)

[S5.3a.4.2 [Deleted] 359](#_Toc256000452)

[S5.3a.4.3 Communications equipment 359](#_Toc256000453)

[S5.3a.5 Design standards 359](#_Toc256000454)

[S5.3a.6 Protection systems and settings 360](#_Toc256000455)

[S5.3a.7 [Deleted] 361](#_Toc256000456)

[S5.3a.8 Reactive power capability 361](#_Toc256000457)

[S5.3a.9 Balancing of load currents 361](#_Toc256000458)

[S5.3a.10 Voltage fluctuations 362](#_Toc256000459)

[S5.3a.11 Harmonics and voltage notching 362](#_Toc256000460)

[S5.3a.12 Design requirements for Market Network Service Providers' substations 363](#_Toc256000461)

[S5.3a.13 Market network service response to disturbances in the power system 363](#_Toc256000462)

[S5.3a.14 Protection of market network services from power system disturbances 364](#_Toc256000463)

[Schedule 5.4 Information to be Provided with Preliminary Enquiry 364](#_Toc256000464)

[Schedule 5.4A Preliminary Response 365](#_Toc256000465)

[Schedule 5.4B Detailed Response to Enquiry 367](#_Toc256000466)

[Schedule 5.5 Technical Details to Support Application for Connection and Connection Agreement 369](#_Toc256000467)

[S5.5.1 Introduction to the schedule 369](#_Toc256000468)

[S5.5.2 Categories of data 370](#_Toc256000469)

[S5.5.3 Review, change and supply of data 371](#_Toc256000470)

[S5.5.4 Data Requirements 371](#_Toc256000471)

[S5.5.5 Asynchronous generating unit data 371](#_Toc256000472)

[S5.5.6 Generating units smaller than 30MW data 372](#_Toc256000473)

[S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines 372](#_Toc256000474)

[Schedule 5.5.1 [Deleted] 375](#_Toc256000475)

[Schedule 5.5.2 [Deleted] 375](#_Toc256000476)

[Schedule 5.5.3 Network and plant technical data of equipment at or near connection point 375](#_Toc256000477)

[Schedule 5.5.4 Network Plant and Apparatus Setting Data 378](#_Toc256000478)

[Schedule 5.5.5 Load Characteristics at Connection Point 380](#_Toc256000479)

[Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements 381](#_Toc256000480)

[Part A Connection agreements 381](#_Toc256000481)

[Part B Network Operating Agreements 383](#_Toc256000482)

[Schedule 5.7 Annual Forecast Information for Planning Purposes 383](#_Toc256000483)

[Schedule 5.8 Distribution Annual Planning Report 385](#_Toc256000484)

[Schedule 5.9 Demand side engagement document (clause 5.13.1(h)) 391](#_Toc256000485)

[Schedule 5.10 Information requirements for Primary Transmission Network Service Providers (clause 5.2A.5) 393](#_Toc256000486)

[Schedule 5.11 Negotiating principles for negotiated transmission services (clause 5.2A.6) 396](#_Toc256000487)

[Schedule 5.12 Negotiating principles for large DCA services 398](#_Toc256000488)

[5A. Electricity connection for retail customers 403](#_Toc256000489)

[Part A Preliminary 403](#_Toc256000490)

[5A.A.1 Definitions 403](#_Toc256000491)

[5A.A.2 Application of this Chapter 406](#_Toc256000492)

[5A.A.3 Small Generation Aggregator deemed to be agent of a retail customer 406](#_Toc256000493)

[Part B Standardised offers to provide basic and standard connection services 407](#_Toc256000494)

[Division 1 Basic connection services 407](#_Toc256000495)

[5A.B.1 Obligation to have model standing offer to provide basic connection services 407](#_Toc256000496)

[5A.B.2 Proposed model standing offer for basic connection services 407](#_Toc256000497)

[5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services 408](#_Toc256000498)

[Division 2 Standard connection services 409](#_Toc256000499)

[5A.B.4 Standard connection services 409](#_Toc256000500)

[5A.B.5 Approval of model standing offer to provide standard connection services 410](#_Toc256000501)

[Division 3 Miscellaneous 411](#_Toc256000502)

[5A.B.6 Amendment etc of model standing offer 411](#_Toc256000503)

[5A.B.7 Publication of model standing offers 411](#_Toc256000504)

[Part C Negotiated connection 412](#_Toc256000505)

[5A.C.1 Negotiation of connection 412](#_Toc256000506)

[5A.C.2 Process of negotiation 412](#_Toc256000507)

[5A.C.3 Negotiation framework 412](#_Toc256000508)

[5A.C.4 Fee to cover cost of negotiation 414](#_Toc256000509)

[Part D Application for connection service 415](#_Toc256000510)

[Division 1 Information 415](#_Toc256000511)

[5A.D.1 Publication of information 415](#_Toc256000512)

[5A.D.1A Register of completed embedded generation projects 415](#_Toc256000513)

[Division 2 Preliminary enquiry 416](#_Toc256000514)

[5A.D.2 Preliminary enquiry 416](#_Toc256000515)

[Division 3 Applications 417](#_Toc256000516)

[5A.D.3 Application process 417](#_Toc256000517)

[5A.D.4 Site inspection 418](#_Toc256000518)

[Part E Connection charges 419](#_Toc256000519)

[5A.E.1 Connection charge principles 419](#_Toc256000520)

[5A.E.2 Itemised statement of connection charges 420](#_Toc256000521)

[5A.E.3 Connection charge guidelines 420](#_Toc256000522)

[5A.E.4 Payment of connection charges 422](#_Toc256000523)

[Part F Formation and integration of connection contracts 423](#_Toc256000524)

[Division 1 Offer and acceptance – basic and standard connection services 423](#_Toc256000525)

[5A.F.1 Distribution Network Service Provider's response to application 423](#_Toc256000526)

[5A.F.2 Acceptance of connection offer 423](#_Toc256000527)

[5A.F.3 Offer and acceptance—application for expedited connection 424](#_Toc256000528)

[Division 2 Offer and acceptance – negotiated connection 424](#_Toc256000529)

[5A.F.4 Negotiated connection offer 424](#_Toc256000530)

[Division 3 Formation of contract 425](#_Toc256000531)

[5A.F.5 Acceptance of connection offer 425](#_Toc256000532)

[Division 4 Contractual performance 425](#_Toc256000533)

[5A.F.6 Carrying out connection work 425](#_Toc256000534)

[5A.F.7 Retailer required for energisation where new connection 426](#_Toc256000535)

[Part G Dispute resolution between Distribution Network Service Providers and customers 426](#_Toc256000536)

[5A.G.1 Relevant disputes 426](#_Toc256000537)

[5A.G.2 Determination of dispute 426](#_Toc256000538)

[5A.G.3 Termination of proceedings 427](#_Toc256000539)

[SCHEDULE 5A.1 – Minimum content requirements for connection contract 427](#_Toc256000540)

[Part A Connection offer not involving embedded generation 427](#_Toc256000541)

[Part B Connection offer involving embedded generation 428](#_Toc256000542)

[6. Economic Regulation of Distribution Services 433](#_Toc256000543)

[Part A Introduction 433](#_Toc256000544)

[6.0 Operation of Chapter 6 in this jurisdiction 433](#_Toc256000545)

[6.0A Interpretation 433](#_Toc256000546)

[6.1 Introduction to Chapter 6 434](#_Toc256000547)

[6.1.1 AER's regulatory responsibility 434](#_Toc256000548)

[6.1.1A [Deleted] 434](#_Toc256000549)

[6.1.2 Structure of this Chapter 434](#_Toc256000550)

[6.1.3 Access to direct control services and negotiated distribution services 435](#_Toc256000551)

[6.1.4 Prohibition of DUOS charges for the export of energy 436](#_Toc256000552)

[Part B Classification of Distribution Services and Distribution Determinations 436](#_Toc256000553)

[6.2 Classification 436](#_Toc256000554)

[6.2.1 Classification of distribution services 436](#_Toc256000555)

[6.2.2 Classification of direct control services as standard control services or alternative control services 436](#_Toc256000556)

[6.2.3 Term for which classification operates 437](#_Toc256000557)

[6.2.3A Distribution Service Classification Guidelines 437](#_Toc256000558)

[6.2.4 Duty of AER to make distribution determinations 438](#_Toc256000559)

[6.2.5 Control mechanisms for direct control services 438](#_Toc256000560)

[6.2.6 Basis of control mechanisms for direct control services 440](#_Toc256000561)

[6.2.7 Negotiated distribution services 440](#_Toc256000562)

[6.2.8 Guidelines 440](#_Toc256000563)

[Part C Building Block Determinations for standard control services 441](#_Toc256000564)

[6.3 Building block determinations 441](#_Toc256000565)

[6.3.1 Introduction 441](#_Toc256000566)

[6.3.2 Contents of building block determination 441](#_Toc256000567)

[6.4 Post-tax revenue model 442](#_Toc256000568)

[6.4.1 Preparation, publication and amendment of post-tax revenue model 442](#_Toc256000569)

[6.4.2 Contents of post-tax revenue model 442](#_Toc256000570)

[6.4.3 Building block approach 443](#_Toc256000571)

[6.4.4 Shared assets 444](#_Toc256000572)

[6.4.5 Expenditure Forecast Assessment Guidelines 446](#_Toc256000573)

[6.4A Capital expenditure incentive mechanisms 446](#_Toc256000574)

[6.4B Asset exemptions 447](#_Toc256000575)

[6.4B.1 Asset exemption decisions and Asset Exemption Guidelines 447](#_Toc256000576)

[6.4B.2 Exemption applications 448](#_Toc256000577)

[6.5 Matters relevant to the making of building block determinations 449](#_Toc256000578)

[6.5.1 Regulatory asset base 449](#_Toc256000579)

[6.5.2 Return on capital 450](#_Toc256000580)

[6.5.3 Estimated cost of corporate income tax 450](#_Toc256000581)

[6.5.4 [Deleted] 450](#_Toc256000582)

[6.5.5 Depreciation 450](#_Toc256000583)

[6.5.6 Forecast operating expenditure 451](#_Toc256000584)

[6.5.7 Forecast capital expenditure 453](#_Toc256000585)

[6.5.8 Efficiency benefit sharing scheme 458](#_Toc256000586)

[6.5.8A Capital expenditure sharing scheme 459](#_Toc256000587)

[6.5.9 The X factor 460](#_Toc256000588)

[6.5.10 Pass through events 461](#_Toc256000589)

[6.6 Adjustments after making of building block determination. 461](#_Toc256000590)

[6.6.1 Cost pass through 461](#_Toc256000591)

[6.6.1AA Cost pass through – deemed determinations 468](#_Toc256000592)

[6.6.1AB Cost pass through – NT events 469](#_Toc256000593)

[6.6.1A Reporting on jurisdictional schemes 474](#_Toc256000594)

[6.6.2 Service target performance incentive scheme 475](#_Toc256000595)

[6.6.3 Demand management incentive scheme 476](#_Toc256000596)

[6.6.3A Demand management innovation allowance mechanism 477](#_Toc256000597)

[6.6.4 Small-scale incentive scheme 478](#_Toc256000598)

[6.6.5 Reopening of distribution determination for capital expenditure 479](#_Toc256000599)

[6.6A Contingent Projects 483](#_Toc256000600)

[6.6A.1 Acceptance of a contingent project in a distribution determination 483](#_Toc256000601)

[6.6A.2 Amendment of distribution determination for contingent project 484](#_Toc256000602)

[Part D Negotiated distribution services 489](#_Toc256000603)

[6.7 Negotiated distribution services 489](#_Toc256000604)

[6.7.1 Principles relating to access to negotiated distribution services 489](#_Toc256000605)

[6.7.2 Determination of terms and conditions of access for negotiated distribution services 491](#_Toc256000606)

[6.7.3 Negotiating framework determination 491](#_Toc256000607)

[6.7.4 Negotiated Distribution Service Criteria determination 491](#_Toc256000608)

[6.7.5 Preparation of and requirements for negotiating framework for negotiated distribution services 492](#_Toc256000609)

[6.7.6 Confidential information 494](#_Toc256000610)

[Part DA Connection policies 494](#_Toc256000611)

[6.7A Connection policy requirements 494](#_Toc256000612)

[6.7A.1 Preparation of, and requirements for, connection policy 494](#_Toc256000613)

[Part E Regulatory proposal and proposed tariff structure statement 495](#_Toc256000614)

[6.8 Regulatory proposal and proposed tariff structure statement 495](#_Toc256000615)

[6.8.1 AER's framework and approach paper 495](#_Toc256000616)

[6.8.1A Notification of approach to forecasting expenditure 497](#_Toc256000617)

[6.8.2 Submission of regulatory proposal, tariff structure statement and exemption application 498](#_Toc256000618)

[6.9 Preliminary examination and consultation 500](#_Toc256000619)

[6.9.1 Preliminary examination 500](#_Toc256000620)

[6.9.2 Resubmission of proposal 500](#_Toc256000621)

[6.9.2A Confidential information 500](#_Toc256000622)

[6.9.3 Consultation 501](#_Toc256000623)

[6.10 Draft distribution determination and further consultation 502](#_Toc256000624)

[6.10.1 Making of draft distribution determination 502](#_Toc256000625)

[6.10.2 Publication of draft determination and consultation 502](#_Toc256000626)

[6.10.3 Submission of revised proposal 503](#_Toc256000627)

[6.10.4 Submissions on specified matters 504](#_Toc256000628)

[6.11 Distribution determination 504](#_Toc256000629)

[6.11.1 Making of distribution determination 504](#_Toc256000630)

[6.11.1A Out of scope revised regulatory proposal or late submissions 505](#_Toc256000631)

[6.11.2 Notice of distribution determination 505](#_Toc256000632)

[6.11.3 Commencement of distribution determination 506](#_Toc256000633)

[6.12 Requirements relating to draft and final distribution determinations 506](#_Toc256000634)

[6.12.1 Constituent decisions 506](#_Toc256000635)

[6.12.2 Reasons for decisions 509](#_Toc256000636)

[6.12.3 Extent of AER's discretion in making distribution determinations 510](#_Toc256000637)

[6.13 Revocation and substitution of distribution determination for wrong information or error 511](#_Toc256000638)

[6.14 Miscellaneous 512](#_Toc256000639)

[6.14A Distribution Confidentiality Guidelines 512](#_Toc256000640)

[Part F Cost Allocation 513](#_Toc256000641)

[6.15 Cost allocation 513](#_Toc256000642)

[6.15.1 Duty to comply with Cost Allocation Method 513](#_Toc256000643)

[6.15.2 Cost Allocation Principles 513](#_Toc256000644)

[6.15.3 Cost Allocation Guidelines 514](#_Toc256000645)

[6.15.4 Cost Allocation Method 515](#_Toc256000646)

[Part G Distribution consultation procedures 516](#_Toc256000647)

[6.16 Distribution consultation procedures 516](#_Toc256000648)

[Part H Ring-Fencing Arrangements for Distribution Network Service Providers 517](#_Toc256000649)

[6.17 Distribution Ring-Fencing Guidelines 517](#_Toc256000650)

[6.17.1 Compliance with Distribution Ring-Fencing Guidelines 517](#_Toc256000651)

[6.17.1B Application of Distribution Ring-Fencing Guidelines in this jurisdiction 518](#_Toc256000652)

[6.17.2 Development of Distribution Ring-Fencing Guidelines 518](#_Toc256000653)

[Part I Distribution Pricing Rules 519](#_Toc256000654)

[6.18 Distribution Pricing Rules 519](#_Toc256000655)

[6.18.1 Application of this Part 519](#_Toc256000656)

[6.18.1A Tariff structure statement 519](#_Toc256000657)

[6.18.1B Amending a tariff structure statement with the AER's approval 520](#_Toc256000658)

[6.18.1C Sub-threshold tariffs 521](#_Toc256000659)

[6.18.2 Pricing proposals 522](#_Toc256000660)

[6.18.3 Tariff classes 523](#_Toc256000661)

[6.18.4 Principles governing assignment or re-assignment of retail customers to tariff classes and assessment and review of basis of charging 524](#_Toc256000662)

[6.18.5 Pricing principles 524](#_Toc256000663)

[6.18.6 Side constraints on tariffs for standard control services 526](#_Toc256000664)

[6.18.7 Recovery of designated pricing proposal charges 527](#_Toc256000665)

[6.18.7A Recovery of jurisdictional scheme amounts 528](#_Toc256000666)

[6.18.8 Approval of pricing proposal 531](#_Toc256000667)

[6.18.9 Publication of information about tariffs and tariff classes 532](#_Toc256000668)

[6.19 Data Required for Distribution Service Pricing 533](#_Toc256000669)

[6.19.1 Forecast use of networks by Distribution Customers and Embedded Generators 533](#_Toc256000670)

[6.19.2 Confidentiality of distribution network pricing information 533](#_Toc256000671)

[Part J Billing and Settlements 533](#_Toc256000672)

[6.20 Billing and Settlements Process 533](#_Toc256000673)

[6.20.1 Billing for distribution services 533](#_Toc256000674)

[6.20.2 Minimum information to be provided in distribution network service bills 535](#_Toc256000675)

[6.20.3 Settlement between Distribution Network Service Providers 535](#_Toc256000676)

[6.20.4 Obligation to pay 535](#_Toc256000677)

[Part K Prudential requirements, capital contributions and prepayments 536](#_Toc256000678)

[6.21 Distribution Network Service Provider Prudential Requirements 536](#_Toc256000679)

[6.21.1 Prudential requirements for distribution network service 536](#_Toc256000680)

[6.21.2 Capital contributions, prepayments and financial guarantees 537](#_Toc256000681)

[6.21.3 Treatment of past prepayments and capital contributions 537](#_Toc256000682)

[Part L Dispute resolution 537](#_Toc256000683)

[6.22 Dispute Resolution 537](#_Toc256000684)

[6.22.1 Dispute Resolution by the AER 537](#_Toc256000685)

[6.22.2 Determination of dispute 538](#_Toc256000686)

[6.22.3 Termination of access dispute without access determination 539](#_Toc256000687)

[Part M Separate disclosure of transmission and distribution charges 539](#_Toc256000688)

[6.23 Separate disclosure of transmission and distribution charges 539](#_Toc256000689)

[Part N Dual Function Assets 540](#_Toc256000690)

[6.24 Dual Function Assets 541](#_Toc256000691)

[6.24.1 Application of this Part 541](#_Toc256000692)

[6.24.2 Dual Function Assets 541](#_Toc256000693)

[6.25 AER determination of applicable pricing regime for Dual Function Assets 541](#_Toc256000694)

[6.26 Division of Distribution Network Service Provider's revenue 542](#_Toc256000695)

[Part O Annual Benchmarking Report 543](#_Toc256000696)

[6.27 Annual Benchmarking Report 543](#_Toc256000697)

[Part P Distribution Reliability Measures Guidelines 544](#_Toc256000698)

[6.28 Distribution Reliability Measures Guidelines 544](#_Toc256000699)

[Schedule 6.1 Contents of building block proposals 544](#_Toc256000700)

[S6.1.1 Information and matters relating to capital expenditure 544](#_Toc256000701)

[S6.1.2 Information and matters relating to operating expenditure 546](#_Toc256000702)

[S6.1.3 Additional information and matters 547](#_Toc256000703)

[Schedule 6.2 Regulatory Asset Base 550](#_Toc256000704)

[S6.2.1 Establishment of opening regulatory asset base for a regulatory control period 550](#_Toc256000705)

[S6.2.2 Prudency and efficiency of capital expenditure 554](#_Toc256000706)

[S6.2.2A Reduction for inefficient past capital expenditure 555](#_Toc256000707)

[S6.2.2B Depreciation 557](#_Toc256000708)

[S6.2.3 Roll forward of regulatory asset base within the same regulatory control period 558](#_Toc256000709)

[S6.2.3A Establishment of opening regulatory asset base for distribution system in this jurisdiction for 1st regulatory control period 559](#_Toc256000710)

[6A. Economic Regulation of Transmission Services 565](#_Toc256000711)

[6B. Retail Markets 569](#_Toc256000712)

[7. Metering 573](#_Toc256000713)

[7A. Metering 577](#_Toc256000714)

[Part A Introduction 577](#_Toc256000715)

[7A.1 Introduction to the Metering Chapter 577](#_Toc256000716)

[7A.1.1 Purpose and application 577](#_Toc256000717)

[7A.1.2 Contents 577](#_Toc256000718)

[7A.1.3 Definitions 577](#_Toc256000719)

[7A.1.4 Inconsistency 578](#_Toc256000720)

[Part B Roles and Responsibilities 578](#_Toc256000721)

[7A.2 Role and responsibility of financially responsible participant 578](#_Toc256000722)

[7A.3 Role and responsibility of Metering Coordinator 579](#_Toc256000723)

[7A.3.1 Responsibility of the Metering Coordinator 579](#_Toc256000724)

[7A.3.2 Role of the Metering Coordinator 580](#_Toc256000725)

[7A.4 Qualification and requirements of Metering Providers and Metering Data Providers 582](#_Toc256000726)

[7A.4.1 Qualification and requirements of Metering Providers 582](#_Toc256000727)

[7A.4.2 Qualification and requirements of Metering Data Providers 582](#_Toc256000728)

[Part C Appointment of Metering Coordinator 583](#_Toc256000729)

[7A.5 Appointment of Metering Coordinator 583](#_Toc256000730)

[Part D Metering installation 584](#_Toc256000731)

[7A.6 Metering installation arrangement 584](#_Toc256000732)

[7A.6.1 Metering installation requirements 584](#_Toc256000733)

[7A.6.2 Metering installation components 584](#_Toc256000734)

[7A.6.3 Emergency management 587](#_Toc256000735)

[7A.6.4 Network devices 587](#_Toc256000736)

[7A.6.5 Metering point 587](#_Toc256000737)

[7A.6.6 Metering installation types and accuracy 588](#_Toc256000738)

[7A.6.7 Functionality requirements for type 1, 2, 3 and 4 metering installations 588](#_Toc256000739)

[7A.6.8 Meter churn 588](#_Toc256000740)

[7A.6.9 Metering installation malfunctions 589](#_Toc256000741)

[7A.6.10 Timeframes for meters to be installed – new connection 590](#_Toc256000742)

[7A.6.11 Timeframes for meters to be installed – where a connection service is not required 590](#_Toc256000743)

[7A.6.12 Timeframes for meters to be installed – where a connection alteration is required 591](#_Toc256000744)

[7A.6.13 Changing a metering installation 592](#_Toc256000745)

[7A.6.14 Prepayment metering 593](#_Toc256000746)

[7A.7 Maintenance, inspection, testing and auditing of metering installations 593](#_Toc256000747)

[7A.7.1 Maintenance 593](#_Toc256000748)

[7A.7.2 Responsibility for inspection and testing 594](#_Toc256000749)

[7A.7.3 Actions in event of non-compliance 595](#_Toc256000750)

[7A.7.4 Audits of information held in metering installations 596](#_Toc256000751)

[7A.7.5 Appointment of external auditor 596](#_Toc256000752)

[7A.7.6 Errors found in metering tests, inspections or audits 597](#_Toc256000753)

[7A.7.7 Retention of test records and documents 597](#_Toc256000754)

[Part E Metering data 598](#_Toc256000755)

[7A.8 Metering data services 598](#_Toc256000756)

[7A.8.1 Metering data services 598](#_Toc256000757)

[7A.8.2 Collection of energy data and estimation of metering data 599](#_Toc256000758)

[7A.8.3 Data management and storage 600](#_Toc256000759)

[7A.8.4 Provision of metering data to certain persons 601](#_Toc256000760)

[7A.8.5 Use of check metering data 602](#_Toc256000761)

[7A.8.6 Periodic energy metering 602](#_Toc256000762)

[7A.8.7 Verification of metering data Metering installations other than type 7 metering installations 603](#_Toc256000763)

[7A.8.8 Time settings 604](#_Toc256000764)

[7A.8.9 Metering data performance standards 604](#_Toc256000765)

[7A.9 Metering data and data base 606](#_Toc256000766)

[7A.9.1 Metering database 606](#_Toc256000767)

[7A.9.2 Data validation, substitution and estimation 607](#_Toc256000768)

[7A.9.3 Changes to energy data or to metering data 607](#_Toc256000769)

[7A.10 Register of metering information 608](#_Toc256000770)

[7A.10.1 Metering register 608](#_Toc256000771)

[7A.10.2 Metering installation registration process 608](#_Toc256000772)

[7A.10.3 Metering register discrepancy 608](#_Toc256000773)

[7A.11 Disclosure of information 609](#_Toc256000774)

[7A.11.1 Provision of data to retailers 609](#_Toc256000775)

[7A.12 Metering data provision to retail customers 610](#_Toc256000776)

[Part F Security of metering installations and energy data 610](#_Toc256000777)

[7A.13 Security of metering installations, energy data and metering data 610](#_Toc256000778)

[7A.13.1 Confidentiality of data 610](#_Toc256000779)

[7A.13.2 Security of metering installations 610](#_Toc256000780)

[7A.13.3 Security controls for energy data 611](#_Toc256000781)

[7A.13.4 Additional security controls for type 4 metering installations 612](#_Toc256000782)

[7A.13.5 Access to data 613](#_Toc256000783)

[Schedule 7A.1 Metering register 614](#_Toc256000784)

[S7A.1.1 General 614](#_Toc256000785)

[S7A.1.2 Metering register information 615](#_Toc256000786)

[S7A.1.3 Communication guideline 615](#_Toc256000787)

[Schedule 7A.2 Metering provider 615](#_Toc256000788)

[Schedule 7A.3 Metering data provider 615](#_Toc256000789)

[Schedule 7A.4 Types and accuracy of metering installations 615](#_Toc256000790)

[S7A.4.1 General requirements 615](#_Toc256000791)

[S7A.4.2 Accuracy requirements for metering installations 616](#_Toc256000792)

[S7A.4.3 Check metering 620](#_Toc256000793)

[S7A.4.4 Resolution and accuracy of displayed or captured data 621](#_Toc256000794)

[S7A.4.5 General design standards 622](#_Toc256000795)

[S7A.4.5.1 Design requirements 622](#_Toc256000796)

[S7A.4.5.2 Design guidelines 622](#_Toc256000797)

[Schedule 7A.5 Metering functionality requirements for type 1, 2, 3 and 4 metering requirements 623](#_Toc256000798)

[S7A.5.1 Introduction 623](#_Toc256000799)

[S7A.5.1.1 Purpose 623](#_Toc256000800)

[S7A.5.1.2 Definitions 623](#_Toc256000801)

[S7A.5.2 Functionality Requirements for Meters in Type 1, 2, and 3 metering installations 623](#_Toc256000802)

[S7A.5.2.1 Application 623](#_Toc256000803)

[S7A.5.2.2 Applicable meter configurations 624](#_Toc256000804)

[S7A.5.2.3 Metrology 624](#_Toc256000805)

[S7A.5.3 Functionality Requirements for Meters in Type 4 metering installations 624](#_Toc256000806)

[S7A.5.3.1 Application 624](#_Toc256000807)

[S7A.5.3.2 Applicable meter configurations 624](#_Toc256000808)

[S7A.5.3.3 Metrology 625](#_Toc256000809)

[S7A.5.3.4 Remote and local reading of meters 625](#_Toc256000810)

[S7A.5.3.5 Supply disconnection and reconnection 626](#_Toc256000811)

[S7A.5.3.5.1 General requirements 626](#_Toc256000812)

[S7A.5.3.5.2 Disconnection 626](#_Toc256000813)

[S7A.5.3.5.3 Reconnection 626](#_Toc256000814)

[S7A.5.3.6 Time clock synchronisation 627](#_Toc256000815)

[S7A.5.3.7 Quality of Supply and other event recording 627](#_Toc256000816)

[S7A.5.3.8 Tamper detection 628](#_Toc256000817)

[S7A.5.3.9 Communications and data security 628](#_Toc256000818)

[S7A.5.3.10 Remote firmware upgrades 628](#_Toc256000819)

[S7A.5.3.11 Remote arming 628](#_Toc256000820)

[Schedule 7A.6 Inspection and testing requirements 628](#_Toc256000821)

[S7A.6.1 General 628](#_Toc256000822)

[S7A.6.2 Technical guidelines 630](#_Toc256000823)

[Schedule 7A.7 Metrology procedure 631](#_Toc256000824)

[Part A ​ 631](#_Toc256000825)

[S7A.7.1 Introduction 631](#_Toc256000826)

[S7A.7.1.1 General 631](#_Toc256000827)

[S7A.7.1.2 Definitions 631](#_Toc256000828)

[S7A.7.1.3 Relevant retailer 632](#_Toc256000829)

[Part B ​ 632](#_Toc256000830)

[S7A.7.2 Purpose and scope 632](#_Toc256000831)

[S7A.7.2.1 Purpose 632](#_Toc256000832)

[S7A.7.2.2 Scope 633](#_Toc256000833)

[S7A.7.3 Metering provision 633](#_Toc256000834)

[S7A.7.3.1 Responsibility for metering provision 633](#_Toc256000835)

[S7A.7.3.2 Metering installation components 633](#_Toc256000836)

[S7A.7.3.3 Use of optical ports and pulse outputs 634](#_Toc256000837)

[S7A.7.3.4 Load control equipment 635](#_Toc256000838)

[S7A.7.3.5 Data storage requirements for meters 635](#_Toc256000839)

[S7A.7.3.6 Metering installation clock 635](#_Toc256000840)

[S7A.7.3.7 Interval meters 635](#_Toc256000841)

[S7A.7.3.8 Alarm settings 636](#_Toc256000842)

[S7A.7.3.9 Summation metering 636](#_Toc256000843)

[S7A.7.3.10 ​ 636](#_Toc256000844)

[S7A.7.3.11 Routine testing and inspection of metering installations 636](#_Toc256000845)

[S7A.7.3.12 Requests for testing type 1 – 6 metering installations 637](#_Toc256000846)

[S7A.7.4 Installation of meters and de-commissioning 638](#_Toc256000847)

[S7A.7.4.1 General installation requirements 638](#_Toc256000848)

[S7A.7.4.2 Type 4A, 5 and 6 metering installations 638](#_Toc256000849)

[S7A.7.4.3 Preliminary de-commissioning and removal of metering equipment requirements 638](#_Toc256000850)

[S7A.7.4.4 ​ 638](#_Toc256000851)

[S7A.7.5 ​ 639](#_Toc256000852)

[S7A.7.6 Responsibility for metering data services 639](#_Toc256000853)

[S7A.7.6.1 Metering data storage 639](#_Toc256000854)

[S7A.7.6.2 Verification of metering data for type 4, 4A, 5, 6 and 7 installations 639](#_Toc256000855)

[S7A.7.6.3 Metering installation type 7 – sample testing 640](#_Toc256000856)

[S7A.7.6.4 Request for text of calculated metering data 641](#_Toc256000857)

[S7A.7.6.5 NTESMO's metering data substitution obligations 642](#_Toc256000858)

[Part C ​ 642](#_Toc256000859)

[S7A.7.7 Purpose and scope 642](#_Toc256000860)

[S7A.7.7.1 Purpose 642](#_Toc256000861)

[S7A.7.7.2 Scope 642](#_Toc256000862)

[S7A.7.8 Principles for validation, substitution and estimation 642](#_Toc256000863)

[S7A.7.8.1 General validation, substitution and estimation requirements 642](#_Toc256000864)

[S7A.7.8.2 Substitution requirements 642](#_Toc256000865)

[S7A.7.8.3 Estimation requirement 643](#_Toc256000866)

[S7A.7.8.4 Metering data quality flags 644](#_Toc256000867)

[S7A.7.8.5 Final substitution 644](#_Toc256000868)

[S7A.7.9 Substitution for acquisition of metering data from remotely read metering installations 645](#_Toc256000869)

[S7A.7.9.1 Application of S7A.7.9 645](#_Toc256000870)

[S7A.7.9.2 Substitution rules 645](#_Toc256000871)

[S7A.7.9.3 Substitution types 647](#_Toc256000872)

[S7A.7.10 Substitution and estimation for manually read interval metering installations 650](#_Toc256000873)

[S7A.7.10.1 Application of S7A7.10 650](#_Toc256000874)

[S7A.7.10.2 Substitution and estimation rules 650](#_Toc256000875)

[S7A.7.10.3 Substitution and estimation types 651](#_Toc256000876)

[S7A.7.11 Substitution and estimation for metering installations with accumulated metering data 653](#_Toc256000877)

[S7A.7.11.1 Substitution and estimation rules 653](#_Toc256000878)

[S7A.7.11.2 Substitution and estimation types 655](#_Toc256000879)

[S7A.7.12 Substitution and estimation for calculated metering data 656](#_Toc256000880)

[S7A.7.12.1 Substitution rules 656](#_Toc256000881)

[S7A.7.12.2 Substitution and estimation types 657](#_Toc256000882)

[S7A.7.13 Data validation requirements 658](#_Toc256000883)

[S7A.7.13.1 Validation requirements for all metering installations 658](#_Toc256000884)

[S7A.7.13.2 Validation of interval metering data alarms 658](#_Toc256000885)

[S7A.7.13.3 Validation within the meter reading process for manually read metering installations 659](#_Toc256000886)

[S7A.7.13.4 Validation as part of the registration process 659](#_Toc256000887)

[S7A.7.13.5 Validation of metering data 660](#_Toc256000888)

[S7A.7.14 Determination of metering data for unmetered loads 666](#_Toc256000889)

[S7A.7.14.1 Load table 666](#_Toc256000890)

[S7A.7.14.2 Controlled unmetered devices 667](#_Toc256000891)

[S7A.7.14.3 Uncontrolled unmetered devices 671](#_Toc256000892)

[Schedule 7A.8 Service level procedures 672](#_Toc256000893)

[Part A Introduction 672](#_Toc256000894)

[S7A.8.1 Introduction 672](#_Toc256000895)

[S7A.8.1.1 Purpose and scope 672](#_Toc256000896)

[S7A.8.1.2 Definitions 672](#_Toc256000897)

[Part B Metering provider services 673](#_Toc256000898)

[S7A.8.2 Introduction 673](#_Toc256000899)

[S7A.8.2.1 Purpose and exclusions 673](#_Toc256000900)

[S7A.8.2.2 Services 673](#_Toc256000901)

[S7A.8.3 General requirements 673](#_Toc256000902)

[S7A.8.3.1 Metering Provider capability and competency 673](#_Toc256000903)

[S7A.8.3.2 Use of contractors 674](#_Toc256000904)

[S7A.8.3.3 Insurance 674](#_Toc256000905)

[S7A.8.4 Device management and test equipment 675](#_Toc256000906)

[S7A.8.4.1 Procurement 675](#_Toc256000907)

[S7A.8.4.2 Storage, handling and transport 675](#_Toc256000908)

[S7A.8.4.3 Management of test equipment 675](#_Toc256000909)

[S7A.8.4.4 Management of meter programming and authorised software 676](#_Toc256000910)

[S7A.8.5 Installation and commissioning requirements 676](#_Toc256000911)

[S7A.8.5.1 General commissioning requirements 676](#_Toc256000912)

[S7A.8.5.2 Metering data validation requirements 677](#_Toc256000913)

[S7A.8.6 Metering installation maintenance 678](#_Toc256000914)

[S7A.8.6.1 Test plans 678](#_Toc256000915)

[S7A.8.6.2 Management of metering installation malfunctions 678](#_Toc256000916)

[S7A.8.6.3 Telecommunications 678](#_Toc256000917)

[S7A.8.6.4 Non-conforming test results or calibrations 679](#_Toc256000918)

[S7A.8.7 Systems and administration 679](#_Toc256000919)

[S7A.8.7.1 Register of metering installations 679](#_Toc256000920)

[S7A.8.7.2 Disaster recovery 680](#_Toc256000921)

[S7A.8.7.3 Audits undertaken by the Utilities Commission 680](#_Toc256000922)

[Part C Metering Data Provider services 680](#_Toc256000923)

[S7A.8.8 Introduction 680](#_Toc256000924)

[S7A.8.8.1 Purpose 680](#_Toc256000925)

[S7A.8.8.2 Obligations 681](#_Toc256000926)

[S7A.8.9 Service requirements 683](#_Toc256000927)

[S7A.8.9.1 System requirements 683](#_Toc256000928)

[S7A.8.9.2 Metering data services database 684](#_Toc256000929)

[S7A.8.9.3 Exception reports 684](#_Toc256000930)

[S7A.8.9.4 Collection process requirements 684](#_Toc256000931)

[S7A.8.9.5 Specific collection process requirements for remotely read metering installations 685](#_Toc256000932)

[S7A.8.9.6 Specific collection process requirements for manually read metering installations 685](#_Toc256000933)

[S7A.8.9.7 Metering data processing requirements 686](#_Toc256000934)

[S7A.8.9.8 Specific metering data processing requirements for type 1, 2, 3 and 4 metering installations 687](#_Toc256000935)

[S7A.8.9.9 Specific metering data processing requirements for type 7 metering installations 687](#_Toc256000936)

[S7A.8.9.10 Specific metering data estimation requirements for manually read and type 7 metering installations 688](#_Toc256000937)

[S7A.8.9.11 Delivery performance requirements for metering data 688](#_Toc256000938)

[S7A.8.10 Data management following the alteration of type of metering installation at a connection point 690](#_Toc256000939)

[S7A.8.10.1 Meter churn scenarios 690](#_Toc256000940)

[S7A.8.10.2 Scenario 1 691](#_Toc256000941)

[S7A.8.10.3 Scenario 2 691](#_Toc256000942)

[S7A.8.10.4 Scenario 3 691](#_Toc256000943)

[S7A.8.10.5 Scenario 4 691](#_Toc256000944)

[S7A.8.11 System architecture and administration 692](#_Toc256000945)

[S7A.8.11.1 Metering data archival and recovery 692](#_Toc256000946)

[S7A.8.11.2 Data backup 693](#_Toc256000947)

[S7A.8.11.3 Disaster recovery 693](#_Toc256000948)

[S7A.8.11.4 System administration and data management 694](#_Toc256000949)

[S7A.8.12 Quality control 694](#_Toc256000950)

[S7A.8.12.1 Audits 694](#_Toc256000951)

[S7A.8.12.2 Corrective action 695](#_Toc256000952)

[S7A.8.13.1 Administration 695](#_Toc256000953)

[S7A.8.13.2 Quality systems 696](#_Toc256000954)

[8. Administrative Functions 699](#_Toc256000955)

[Part A Introductory 699](#_Toc256000956)

[8.1 Administrative functions 699](#_Toc256000957)

[8.1.1 [Deleted] 699](#_Toc256000958)

[8.1.2 [Deleted] 699](#_Toc256000959)

[8.1.3 Structure of this Chapter 699](#_Toc256000960)

[Part B Disputes 699](#_Toc256000961)

[Part C Registered Participants' confidentiality obligations 700](#_Toc256000962)

[8.6 Confidentiality 700](#_Toc256000963)

[8.6.1 Confidentiality 700](#_Toc256000964)

[8.6.1A Application 701](#_Toc256000965)

[8.6.2 Exceptions 701](#_Toc256000966)

[8.6.3 Conditions 702](#_Toc256000967)

[8.6.4 [Deleted] 703](#_Toc256000968)

[8.6.5 Indemnity to AER, AEMC and AEMO 703](#_Toc256000969)

[8.6.6 AEMO information 703](#_Toc256000970)

[8.6.7 Information on Rules Bodies 703](#_Toc256000971)

[Part D Monitoring and reporting 703](#_Toc256000972)

[8.7 Monitoring and Reporting 703](#_Toc256000973)

[8.7.1 Monitoring 703](#_Toc256000974)

[8.7.2 Reporting requirements and monitoring standards for Registered Participants 704](#_Toc256000975)

[8.7.3 Consultation required for making general regulatory information order (Section 28H of the NEL) 706](#_Toc256000976)

[8.7.4 Preparation of network service provider performance report (Section 28V of the NEL) 707](#_Toc256000977)

[8.7.5 [Deleted] 707](#_Toc256000978)

[8.7.6 Recovery of reporting costs 707](#_Toc256000979)

[Part E Reliability panel 708](#_Toc256000980)

[8.8 Reliability Panel 708](#_Toc256000981)

[8.8.1 Purpose of Reliability Panel 708](#_Toc256000982)

[8.8.2 Constitution of the Reliability Panel 709](#_Toc256000983)

[8.8.3 Reliability Panel review process 711](#_Toc256000984)

[8.8.4 Determination of protected events 714](#_Toc256000985)

[Part F Rules consultation procedures 715](#_Toc256000986)

[8.9 Rules Consultation Procedures 715](#_Toc256000987)

[Part G Consumer advocacy funding 717](#_Toc256000988)

[8.10 Consumer advocacy funding obligation 718](#_Toc256000989)

[Part H Augmentations 718](#_Toc256000990)

[8.11 Augmentations 718](#_Toc256000991)

[8.11.1 Application 718](#_Toc256000992)

[8.11.2 Object 718](#_Toc256000993)

[8.11.3 Definitions 719](#_Toc256000994)

[8.11.4 Planning criteria 719](#_Toc256000995)

[8.11.5 Construction of augmentation that is not a contestable augmentation 720](#_Toc256000996)

[8.11.6 Contestable augmentations 720](#_Toc256000997)

[8.11.7 Construction and operation of contestable augmentation 721](#_Toc256000998)

[8.11.8 Funded augmentations that are not subject to the tender process 722](#_Toc256000999)

[8.11.9 Contractual requirements and principles 723](#_Toc256001000)

[8.11.10 Annual planning review 723](#_Toc256001001)

[Schedule 8.11 Principles to be reflected in agreements relating to contestable augmentations 724](#_Toc256001002)

[S8.11.1 Risk allocation 724](#_Toc256001003)

[S8.11.2 Minimum requirements for agreements relating to contestable augmentation 725](#_Toc256001004)

[S8.11.3 Matters to be dealt with in relevant agreements 725](#_Toc256001005)

[Part I Values of customer reliability 726](#_Toc256001006)

[8.12 Development of methodology and publication of values of customer reliability 726](#_Toc256001007)

[8A. Participant Derogations 731](#_Toc256001008)

[Part 1 Derogations Granted to TransGrid 731](#_Toc256001009)

[8A.1 [Deleted] 731](#_Toc256001010)

[Part 2 Derogations Granted to EnergyAustralia 731](#_Toc256001011)

[8A.2 [Deleted] 731](#_Toc256001012)

[8A.2A [Deleted] 731](#_Toc256001013)

[Part 3 [Deleted] 731](#_Toc256001014)

[Part 4 [Deleted] 731](#_Toc256001015)

[Part 5 [Deleted] 731](#_Toc256001016)

[Part 6 Derogations Granted to Victorian Market Participants 731](#_Toc256001017)

[Part 7 [Deleted] 732](#_Toc256001018)

[Part 8 [Deleted] 732](#_Toc256001019)

[Part 9 [Deleted] 732](#_Toc256001020)

[Part 10 [Deleted] 732](#_Toc256001021)

[Part 11 [Deleted] 732](#_Toc256001022)

[Part 12 [Deleted] 732](#_Toc256001023)

[Part 13 Derogation granted to Aurora Energy (Tamar Valley) Pty Ltd 732](#_Toc256001024)

[8A.13 [Deleted] 732](#_Toc256001025)

[Part 14 Derogations granted to Ausgrid, Endeavour Energy and Essential Energy 732](#_Toc256001026)

[8A.14 Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period 732](#_Toc256001027)

[8A.14.1 Definitions 732](#_Toc256001028)

[8A.14.2 Expiry date 736](#_Toc256001029)

[8A.14.3 Application of Rule 8A.14 736](#_Toc256001030)

[8A.14.4 Recovery of revenue across the current regulatory control period and subsequent regulatory control period 737](#_Toc256001031)

[8A.14.5 Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required 738](#_Toc256001032)

[8A.14.6 Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required 739](#_Toc256001033)

[8A.14.7 Requirements for adjustment determination 740](#_Toc256001034)

[8A.14.8 Application of Chapter 6 under participant derogation 741](#_Toc256001035)

[Part 15 Derogations granted to ActewAGL 742](#_Toc256001036)

[8A.15 Derogations from Chapter 6 for the current regulatory control period and subsequent regulatory control period 742](#_Toc256001037)

[8A.15.1 Definitions 742](#_Toc256001038)

[8A.15.2 Expiry date 746](#_Toc256001039)

[8A.15.3 Application of Rule 8A.15 746](#_Toc256001040)

[8A.15.4 Recovery of revenue across the current regulatory control period and subsequent regulatory control period 746](#_Toc256001041)

[8A.15.5 Recovery of revenue in subsequent regulatory control period only and no reopening of subsequent distribution determination required 748](#_Toc256001042)

[8A.15.6 Recovery of revenue in subsequent regulatory control period only and reopening of distribution determination is required 749](#_Toc256001043)

[8A.15.7 Requirements for adjustment determination 751](#_Toc256001044)

[8A.15.8 Application of Chapter 6 under participant derogation 751](#_Toc256001045)

[9. Jurisdictional Derogations and Transitional Arrangements 757](#_Toc256001046)

[9.1 Purpose and Application 757](#_Toc256001047)

[9.1.1 Purpose 757](#_Toc256001048)

[9.1.2 Jurisdictional Derogations 757](#_Toc256001049)

[Part A Jurisdictional Derogations for Victoria 757](#_Toc256001050)

[9.2 [Deleted] 757](#_Toc256001051)

[9.3 Definitions 757](#_Toc256001052)

[9.3.1 General Definitions 757](#_Toc256001053)

[9.3.2 [Deleted] 759](#_Toc256001054)

[9.3A Fault levels 759](#_Toc256001055)

[9.4 Transitional Arrangements for Chapter 2 - Registered Participants, Registration and Cross Border Networks 760](#_Toc256001056)

[9.4.1 [Deleted] 760](#_Toc256001057)

[9.4.2 Smelter Trader 760](#_Toc256001058)

[9.4.3 Smelter Trader: compliance 760](#_Toc256001059)

[9.4.4 Report from AER 763](#_Toc256001060)

[9.4.5 Cross Border Networks 763](#_Toc256001061)

[9.5 Transitional Arrangements for Chapter 3 – Reliability and Emergency Reserve Trader 764](#_Toc256001062)

[9.5.1 Definition 764](#_Toc256001063)

[9.5.2 Expiry date 764](#_Toc256001064)

[9.5.3 Multi-year Victorian contracts – term and volume 764](#_Toc256001065)

[9.5.4 Multi-year Victorian contracts - reporting 764](#_Toc256001066)

[9.6 Transitional Arrangements for Chapter 4 - System Security 765](#_Toc256001067)

[9.6.1 Operating Procedures (clause 4.10.1) 765](#_Toc256001068)

[9.6.2 Nomenclature Standards (clause 4.12) 765](#_Toc256001069)

[9.7 Transitional Arrangements for Chapter 5 - Network Connection 766](#_Toc256001070)

[9.7.1 [Deleted] 766](#_Toc256001071)

[9.7.2 [Deleted] 766](#_Toc256001072)

[9.7.3 [Deleted] 766](#_Toc256001073)

[9.7.4 Regulation of Distribution Network Connection 766](#_Toc256001074)

[9.7.5 [Deleted] 767](#_Toc256001075)

[9.7.6 [Deleted] 767](#_Toc256001076)

[9.7.7 [Deleted] 767](#_Toc256001077)

[9.8 Transitional Arrangements for Chapter 6 - Network Pricing 767](#_Toc256001078)

[9.8.1 [Deleted] 767](#_Toc256001079)

[9.8.2 [Deleted] 767](#_Toc256001080)

[9.8.3 [Deleted] 767](#_Toc256001081)

[9.8.4 Transmission Network Pricing 767](#_Toc256001082)

[9.8.4A [Deleted] 768](#_Toc256001083)

[9.8.4B [Deleted] 768](#_Toc256001084)

[9.8.4C [Deleted] 768](#_Toc256001085)

[9.8.4D [Deleted] 768](#_Toc256001086)

[9.8.4E [Deleted] 768](#_Toc256001087)

[9.8.4F [Deleted] 768](#_Toc256001088)

[9.8.4G [Deleted] 768](#_Toc256001089)

[9.8.5 [Deleted] 768](#_Toc256001090)

[9.8.6 [Deleted] 768](#_Toc256001091)

[9.8.7 Distribution network pricing – transitional application of former Chapter 6 768](#_Toc256001092)

[9.8.8 Exclusion of AER's power to aggregate distribution systems and parts of distribution systems 769](#_Toc256001093)

[9.9 Transitional Arrangements for Chapter 7 - Metering 770](#_Toc256001094)

[9.9.1 Metering Installations To Which This Schedule Applies 770](#_Toc256001095)

[9.9.2 [Deleted] 770](#_Toc256001096)

[9.9.3 [Deleted] 770](#_Toc256001097)

[9.9.4 [Deleted] 770](#_Toc256001098)

[9.9.5 [Deleted] 770](#_Toc256001099)

[9.9.6 [Deleted] 770](#_Toc256001100)

[9.9.7 [Deleted] 770](#_Toc256001101)

[9.9.8 [Deleted] 770](#_Toc256001102)

[9.9.9 Periodic Energy Metering (clause 7.9.3) 770](#_Toc256001103)

[9.9.10 Use of Alternate Technologies (clause 7.13) 770](#_Toc256001104)

[9.9A [Deleted] 771](#_Toc256001105)

[9.9B [Deleted] 771](#_Toc256001106)

[9.9C [Deleted] 771](#_Toc256001107)

[1. Interpretation of tables 771](#_Toc256001108)

[2. Continuing effect 771](#_Toc256001109)

[3. Subsequent agreement 772](#_Toc256001110)

[4. [Deleted] 772](#_Toc256001111)

[5. Reactive Power Capability (clause S5.2.5.1 of schedule 5.2) 772](#_Toc256001112)

[6. [Deleted] 773](#_Toc256001113)

[7. [Deleted] 773](#_Toc256001114)

[8. [Deleted] 773](#_Toc256001115)

[9. [Deleted] 773](#_Toc256001116)

[10. [Deleted] 773](#_Toc256001117)

[11. [Deleted 773](#_Toc256001118)

[12. [Deleted] 773](#_Toc256001119)

[13. Governor Systems (load control) (clause S5.2.5.11 of schedule 5.2) 773](#_Toc256001120)

[14. [Deleted] 773](#_Toc256001121)

[15. [Deleted] 773](#_Toc256001122)

[16. Excitation Control System (clause S5.2.5.13 of schedule 5.2) 773](#_Toc256001123)

[Part B Jurisdictional Derogations for New South Wales 774](#_Toc256001124)

[9.10 [Deleted] 774](#_Toc256001125)

[9.11 Definitions 774](#_Toc256001126)

[9.11.1 Definitions used in this Part B 774](#_Toc256001127)

[9.12 Transitional Arrangements for Chapter 2 - Generators, Registered Participants, Registration and Cross Border Networks 775](#_Toc256001128)

[9.12.1 [Deleted] 775](#_Toc256001129)

[9.12.2 Customers 775](#_Toc256001130)

[9.12.3 Power Traders 775](#_Toc256001131)

[9.12.4 Cross Border Networks 778](#_Toc256001132)

[9.13 [Deleted] 779](#_Toc256001133)

[9.14 Transitional Arrangements for Chapter 4 - System Security 779](#_Toc256001134)

[9.14.1 Power System Operating Procedures 779](#_Toc256001135)

[9.15 NSW contestable services for Chapter 5A 779](#_Toc256001136)

[9.15.1 Definitions 779](#_Toc256001137)

[9.15.2 Chapter 5A not to apply to certain contestable services 779](#_Toc256001138)

[9.16 Transitional Arrangements for Chapter 6 - Network Pricing 779](#_Toc256001139)

[9.16.1 NSW contestable services 779](#_Toc256001140)

[9.16.2 [Deleted] 779](#_Toc256001141)

[9.16.3 Jurisdictional Regulator 779](#_Toc256001142)

[9.16.4 Deemed Regulated Interconnector 780](#_Toc256001143)

[9.16.5 [Deleted] 780](#_Toc256001144)

[9.17 Transitional Arrangements for Chapter 7 - Metering 780](#_Toc256001145)

[9.17.1 Extent of Derogations 780](#_Toc256001146)

[9.17.2 Initial Registration (clause 7.1.2) 780](#_Toc256001147)

[9.17.3 Amendments to Schedule 9G1 780](#_Toc256001148)

[9.17.4 Compliance with AS/NZ ISO 9002 (clause S7.4.3(f) of schedule 7.4) 781](#_Toc256001149)

[9.17A [Deleted] 781](#_Toc256001150)

[9.18 [Deleted] 781](#_Toc256001151)

[Part C Jurisdictional Derogations for the Australian Capital Territory 781](#_Toc256001152)

[9.19 [Deleted] 781](#_Toc256001153)

[9.20 Definitions and Transitional Arrangements for Cross-Border Networks 781](#_Toc256001154)

[9.20.1 Definitions 781](#_Toc256001155)

[9.20.2 Cross Border Networks 781](#_Toc256001156)

[9.21 [Deleted] 782](#_Toc256001157)

[9.22 [Deleted] 782](#_Toc256001158)

[9.23 Transitional Arrangements for Chapter 6 - Network Pricing 782](#_Toc256001159)

[9.23.1 [Deleted] 782](#_Toc256001160)

[9.23.2 [Deleted] 782](#_Toc256001161)

[9.23.3 [Deleted 782](#_Toc256001162)

[9.23.4 [Deleted] 782](#_Toc256001163)

[9.24 Transitional Arrangements 782](#_Toc256001164)

[9.24.1 Chapter 7 - Metering 782](#_Toc256001165)

[9.24.2 [Deleted] 782](#_Toc256001166)

[9.24A [Deleted] 782](#_Toc256001167)

[Part D Jurisdictional Derogations for South Australia 782](#_Toc256001168)

[9.25 Definitions 782](#_Toc256001169)

[9.25.1 [Deleted] 782](#_Toc256001170)

[9.25.2 Definitions 782](#_Toc256001171)

[9.26 Transitional Arrangements for Chapter 2 - Registered Participants, Registration And Cross Border Networks 785](#_Toc256001172)

[9.26.1 Registration as a Generator 785](#_Toc256001173)

[9.26.2 Registration as a Customer 786](#_Toc256001174)

[9.26.3 Cross Border Networks 786](#_Toc256001175)

[9.26.4 [Deleted] 786](#_Toc256001176)

[9.26.5 Registration as a Network Service Provider 786](#_Toc256001177)

[9.27 [Deleted] 787](#_Toc256001178)

[9.28 Transitional Arrangements for Chapter 5 - Network Connection 787](#_Toc256001179)

[9.28.1 Application of clause 5.2 787](#_Toc256001180)

[9.28.2 [Deleted] 788](#_Toc256001181)

[9.29 Transitional Arrangements for Chapter 6 - Economic Regulation of Distribution Services 788](#_Toc256001182)

[9.29.1 [Deleted] 788](#_Toc256001183)

[9.29.2 [Deleted] 788](#_Toc256001184)

[9.29.3 [Deleted] 788](#_Toc256001185)

[9.29.4 [Deleted] 788](#_Toc256001186)

[9.29.5 Distribution Network Pricing – South Australia 788](#_Toc256001187)

[9.29.6 Capital contributions, prepayments and financial guarantees 789](#_Toc256001188)

[9.29.7 Ring fencing 789](#_Toc256001189)

[9.29A Monitoring and reporting 789](#_Toc256001190)

[9.30 Transitional Provisions 790](#_Toc256001191)

[9.30.1 Chapter 7 - Metering 790](#_Toc256001192)

[Part E Jurisdictional Derogations for Queensland 790](#_Toc256001193)

[9.31 [Deleted] 790](#_Toc256001194)

[9.32 Definitions and Interpretation 790](#_Toc256001195)

[9.32.1 Definitions 790](#_Toc256001196)

[9.32.2 Interpretation 793](#_Toc256001197)

[9.33 Transitional Arrangements for Chapter 1 793](#_Toc256001198)

[9.33.1 [Deleted] 793](#_Toc256001199)

[9.34 Transitional Arrangements for Chapter 2 - Registered Participants and Registration 793](#_Toc256001200)

[9.34.1 Application of the Rules in Queensland (clauses 2.2 and 2.5) 793](#_Toc256001201)

[9.34.2 Stanwell Cross Border Leases (clause 2.2) 793](#_Toc256001202)

[9.34.3 [Deleted] 793](#_Toc256001203)

[9.34.4 Registration as a Customer (clause 2.3.1) 793](#_Toc256001204)

[9.34.5 There is no clause 9.34.5 794](#_Toc256001205)

[9.34.6 Exempted generation agreements (clause 2.2) 794](#_Toc256001206)

[9.35 [Deleted] 798](#_Toc256001207)

[9.36 [Deleted] 798](#_Toc256001208)

[9.37 Transitional Arrangements for Chapter 5 - Network Connection 798](#_Toc256001209)

[9.37.1 [Deleted] 798](#_Toc256001210)

[9.37.2 Existing connection and access agreements (clause 5.2) 798](#_Toc256001211)

[9.37.3 [Deleted] 799](#_Toc256001212)

[9.37.4 [Deleted] 799](#_Toc256001213)

[9.37.5 Forecasts for connection points to transmission network (clause 5.11.1) 799](#_Toc256001214)

[9.37.6 There is no clause 9.37.6 799](#_Toc256001215)

[9.37.7 Cross Border Networks 799](#_Toc256001216)

[9.37.8 [Deleted] 800](#_Toc256001217)

[9.37.9 Credible contingency events (clause S5.1.2.1 of schedule 5.1) 800](#_Toc256001218)

[9.37.10 Reactive power capability (clause S5.2.5.1 of schedule 5.2) 800](#_Toc256001219)

[9.37.11 [Deleted] 801](#_Toc256001220)

[9.37.12 Voltage fluctuations (clause S5.1.5 of schedule 5.1) 801](#_Toc256001221)

[9.37.13 [Deleted] 803](#_Toc256001222)

[9.37.14 [Deleted] 803](#_Toc256001223)

[9.37.15 [Deleted] 803](#_Toc256001224)

[9.37.16 [Deleted] 803](#_Toc256001225)

[9.37.17 [Deleted] 803](#_Toc256001226)

[9.37.18 [Deleted] 803](#_Toc256001227)

[9.37.19 Generating unit response to disturbances (clause S5.2.5.3 of schedule 5.2) 803](#_Toc256001228)

[9.37.20 [Deleted] 803](#_Toc256001229)

[9.37.21 Excitation control system (clause S.5.2.5.13 of schedule 5.2) 803](#_Toc256001230)

[9.37.22 [Deleted] 804](#_Toc256001231)

[9.37.23 Annual forecast information for planning purposes (schedule 5.7) 804](#_Toc256001232)

[9.38 Transitional Arrangements for Chapter 6 - Network Pricing 804](#_Toc256001233)

[9.38.1 [Deleted] 804](#_Toc256001234)

[9.38.2 [Deleted] 804](#_Toc256001235)

[9.38.3 [Deleted] 804](#_Toc256001236)

[9.38.4 Interconnectors between regions 804](#_Toc256001237)

[9.38.5 Transmission pricing for exempted generation agreements 804](#_Toc256001238)

[9.39 Transitional Arrangements for Chapter 7 - Metering 805](#_Toc256001239)

[9.39.1 Metering installations to which this clause applies 805](#_Toc256001240)

[9.39.2 [Deleted] 806](#_Toc256001241)

[9.39.3 [Deleted] 806](#_Toc256001242)

[9.39.4 [Deleted] 806](#_Toc256001243)

[9.39.5 [Deleted] 806](#_Toc256001244)

[9.40 Transitional Arrangements for Chapter 8 - Administration Functions 806](#_Toc256001245)

[9.40.1 [Deleted] 806](#_Toc256001246)

[9.40.2 [Deleted] 806](#_Toc256001247)

[9.40.3 [Deleted] 806](#_Toc256001248)

[9.41 [Deleted] 806](#_Toc256001249)

[Part F Jurisdictional Derogations for Tasmania 807](#_Toc256001250)

[9.42 Definitions and interpretation 807](#_Toc256001251)

[9.42.1 Definitions 807](#_Toc256001252)

[9.42.2 Interpretation 808](#_Toc256001253)

[9.42.3 National grid, power system and related expressions 808](#_Toc256001254)

[9.43 [Deleted] 809](#_Toc256001255)

[9.44 Transitional arrangements for Chapter 2 – Registered Participants and Registration - Customers (clause 2.3.1(e)) 809](#_Toc256001256)

[9.45 Tasmanian Region (clause 3.5) 809](#_Toc256001257)

[9.47 Transitional arrangements for Chapter 5- Network Connection 809](#_Toc256001258)

[9.47.1 Existing Connection Agreements 809](#_Toc256001259)

[9.48 Transitional arrangements - Transmission and Distribution Pricing 809](#_Toc256001260)

[9.48.4A Ring fencing 809](#_Toc256001261)

[9.48.4B Uniformity of tariffs for small customers 810](#_Toc256001262)

[9.48.5 Transmission network 810](#_Toc256001263)

[9.48.6 Deemed regulated interconnector 810](#_Toc256001264)

[Part G Schedules to Chapter 9 810](#_Toc256001265)

[1. Introduction 810](#_Toc256001266)

[2. [Deleted] 810](#_Toc256001267)

[3. General Principle 810](#_Toc256001268)

[4. [Deleted] 811](#_Toc256001269)

[5. Accuracy Requirements 811](#_Toc256001270)

[6. [Deleted] 811](#_Toc256001271)

[7. [Deleted] 811](#_Toc256001272)

[8. [Deleted] 811](#_Toc256001273)

[9. [Deleted] 811](#_Toc256001274)

[10. [Deleted] 811](#_Toc256001275)

[10. Glossary 815](#_Toc256001276)

[11. Savings and Transitional Rules 937](#_Toc256001277)

[Part ZZJ Demand management incentive scheme 937](#_Toc256001278)

[11.82 Rules consequential on making of the National Electricity Amendment (Demand management incentive scheme) Rule 2015 937](#_Toc256001279)

[11.82.1 Definitions 937](#_Toc256001280)

[11.82.2 AER to develop and publish the demand management incentive scheme and demand management innovation allowance mechanism 937](#_Toc256001281)

[Part ZZM Common definitions of distribution reliability measures 937](#_Toc256001282)

[11.85 Rules consequential on the making of the National Electricity Amendment (Common definitions of distribution reliability measures) Rule 2015 937](#_Toc256001283)

[11.85.1 Definitions 937](#_Toc256001284)

[11.85.2 Distribution reliability measures guidelines 938](#_Toc256001285)

[11.85.3 Amended STPIS 938](#_Toc256001286)

[11.86.8 Distribution Ring Fencing Guidelines 938](#_Toc256001287)

[Part ZZU Rate of Return Guidelines Review 938](#_Toc256001288)

[11.93 Rules consequential on the making of the National Electricity Amendment (Rate of Return Guidelines Review) Rule 2016 938](#_Toc256001289)

[11.93.1 Definitions 938](#_Toc256001290)

[11.93.2 Application of current rate of return guidelines to making of a distribution determination for the subsequent regulatory control period 939](#_Toc256001291)

[Part ZZV Demand Response Mechanism and Ancillary Services Unbundling 940](#_Toc256001292)

[11.94 Rules consequential on the making of the National Electricity Amendment (Demand Response Management and Ancillary Services Unbundling) rule 2016 940](#_Toc256001293)

[11.94.1 Definitions 940](#_Toc256001294)

[11.94.2 Participant fees for Market Ancillary Service Providers 940](#_Toc256001295)

[Part ZZW Local Generation Network Credits 940](#_Toc256001296)

[11.95 Rules consequential on the making of the National Electricity Amendment (Local Generation Network Credits) Rule 2016 940](#_Toc256001297)

[11.95.1 Definitions 940](#_Toc256001298)

[11.95.2 System limitation template 940](#_Toc256001299)

[Part ZZY Emergency Frequency Control Schemes 941](#_Toc256001300)

[11.97 Rules consequent on the making of the National Electricity Amendment (Emergency frequency control schemes) Rule 2017 941](#_Toc256001301)

[11.97.1 Definitions 941](#_Toc256001302)

[11.97.2 Interim frequency operating standards for protected events 941](#_Toc256001303)

[11.97.3 First power system frequency risk review 942](#_Toc256001304)

[11.97.4 AEMO must review existing load shedding procedures 942](#_Toc256001305)

[11.97.5 Load shedding procedures 942](#_Toc256001306)

[Part ZZZ Transmission Connection and Planning Arrangements 943](#_Toc256001307)

[11.98 Rules consequential on the making of the National Electricity Amendment (Transmission Connection and Planning Arrangements) Rule 2017 943](#_Toc256001308)

[11.98.1 Definitions 943](#_Toc256001309)

[11.98.2 Grandfathering of existing dedicated connection assets 944](#_Toc256001310)

[11.98.3 Preparatory steps for registration changes under the Amending Rule 944](#_Toc256001311)

[11.98.4 Participant fees for Dedicated Connection Asset Service Providers 945](#_Toc256001312)

[11.98.5 Existing Connection Agreements 945](#_Toc256001313)

[11.98.6 Connection process 945](#_Toc256001314)

[11.98.7 Transmission Annual Planning Report 946](#_Toc256001315)

[11.98.8 Preservation for adoptive jurisdictions 946](#_Toc256001316)

[Part ZZZA Replacement expenditure planning arrangements 946](#_Toc256001317)

[11.99 Rules consequential on the making of the National Electricity Amendment (Replacement expenditure planning arrangements) Rule 2017 946](#_Toc256001318)

[11.99.1 Definitions 946](#_Toc256001319)

[11.99.3 Transitional arrangements for affected DNSPs 947](#_Toc256001320)

[11.99.4 Amendments to RIT documentation 948](#_Toc256001321)

[11.99.5 Transitional arrangements relating to excluded projects 948](#_Toc256001322)

[11.99.6 Transitional arrangements relating to Victorian bushfire mitigation projects 948](#_Toc256001323)

[11.99.7 Transitional arrangements relating to review of costs thresholds 949](#_Toc256001324)

[Part ZZZB Managing the rate of change of power system frequency 949](#_Toc256001325)

[11.100 Rules consequential on the making of the National Electricity Amendment (Managing the rate of change of power system frequency) Rule 2017 949](#_Toc256001326)

[11.100.1 Definitions 949](#_Toc256001327)

[11.100.2 Inertia sub-networks 950](#_Toc256001328)

[11.100.3 Inertia requirements methodology 950](#_Toc256001329)

[11.100.4 Inertia requirements 950](#_Toc256001330)

[11.100.5 NSCAS not to be used to meet an inertia shortfall after 1 July 2019 951](#_Toc256001331)

[11.100.6 Inertia network services may be used to meet an NSCAS gap declared in the NSCAS transition period 951](#_Toc256001332)

[11.100.7 Inertia network services made available before the commencement date 952](#_Toc256001333)

[Part ZZZC Managing power system fault levels 952](#_Toc256001334)

[11.101 Rules consequential on the making of the National Electricity Amendment (Managing power system fault levels) Rule 2017 952](#_Toc256001335)

[11.101.1 Definitions 952](#_Toc256001336)

[11.101.2 System strength impact assessment guidelines 953](#_Toc256001337)

[11.101.3 System strength requirements methodology 954](#_Toc256001338)

[11.101.4 System strength requirements 954](#_Toc256001339)

[11.101.5 NSCAS not to be used to meet a fault level shortfall after 1 July 2019 955](#_Toc256001340)

[11.101.6 System strength services may be used to meet an NSCAS gap declared in the NSCAS transition period 955](#_Toc256001341)

[11.101.7 Withdrawal of a system strength-related NSCAS gap already declared 956](#_Toc256001342)

[11.101.8 System strength services made available before the commencement date 956](#_Toc256001343)

[Part ZZZD Generating System Model Guidelines 956](#_Toc256001344)

[11.102 Making of Power System Model Guidelines 956](#_Toc256001345)

[Part ZZZE Five Minute Settlement 956](#_Toc256001346)

[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 956](#_Toc256001347)

[11.103.1 Definitions 956](#_Toc256001348)

[11.103.2 Amendments to procedures 957](#_Toc256001349)

[11.103.3. Exemption for certain metering installations 958](#_Toc256001350)

[11.103.4 New or replacement meters 958](#_Toc256001351)

[11.103.5 Metering installations exempt from metering data provision requirements 959](#_Toc256001352)

[11.103.6 Exemption from meter data storage requirements 959](#_Toc256001353)

[11.103.7 Default offers and bids submitted prior to the commencement date 959](#_Toc256001354)

[Part ZZZF Contestability of energy services 959](#_Toc256001355)

[11.104 Rules consequential on the making of the National Electricity Amendment (Contestability of energy services) Rule 2017 959](#_Toc256001356)

[11.104.1 Definitions 959](#_Toc256001357)

[11.104.2 New guidelines 961](#_Toc256001358)

[11.104.3 Transitional arrangements for application of Distribution Service Classification Guidelines and service classification provisions 961](#_Toc256001359)

[11.104.4 Transitional arrangements for application of Asset Exemption Guidelines, exemption applications and asset exemption decisions 961](#_Toc256001360)

[11.104.5 Transitional arrangements for adjustment in value of regulatory asset base 963](#_Toc256001361)

[Part ZZZG Declaration of lack of reserve conditions 963](#_Toc256001362)

[11.105 Making of lack of reserve declaration guidelines 963](#_Toc256001363)

[11.105.1 Definitions 963](#_Toc256001364)

[11.105.2 Making of lack of reserve declaration guidelines 963](#_Toc256001365)

[Part ZZZH Implementation of demand management incentive scheme 963](#_Toc256001366)

[11.106 Implementation of demand management incentive scheme 963](#_Toc256001367)

[11.106.1 Definitions 963](#_Toc256001368)

[11.106.2 Purpose 964](#_Toc256001369)

[11.106.3 Early application of revised demand management incentive scheme 964](#_Toc256001370)

[Part ZZZI Reinstatement of long notice Reliability and Emergency Reserve Trader 965](#_Toc256001371)

[11.107 Rules consequential on the making of the National Electricity Amendment (Reinstatement of long notice Reliability and Emergency Reserve Trader) Rule 2018 965](#_Toc256001372)

[11.107.1 Definitions 965](#_Toc256001373)

[11.107.2 New RERT guidelines 966](#_Toc256001374)

[11.107.3 Amendments to RERT procedures 969](#_Toc256001375)

[11.107.4 Reserve contracts entered into before the commencement date 969](#_Toc256001376)

[Part ZZZJ Register of distributed energy resources 969](#_Toc256001377)

[11.108 Rules consequential on the making of the National Electricity Amendment (Register of distributed energy resources) Rule 2018 969](#_Toc256001378)

[11.108.1 Definitions 969](#_Toc256001379)

[11.108.2 AEMO to develop and publish DER register information guidelines 970](#_Toc256001380)

[11.108.3 NSPs to provide AEMO with existing DER generation information 970](#_Toc256001381)

[Part ZZZK Generator technical performance standards 970](#_Toc256001382)

[11.109 Rules consequential on the making of the National Electricity Amendment (Generator technical performance standards) Rule 2018 970](#_Toc256001383)

[11.109.1 Definitions 970](#_Toc256001384)

[11.109.2 Application of the Amending Rule to existing connection enquiries 971](#_Toc256001385)

[11.109.3 Application of the Amending Rule to existing applications to connect 972](#_Toc256001386)

[11.109.4 Application of the Amending Rule to existing offers to connect 974](#_Toc256001387)

[11.109.5 Application of the Amending Rule to Existing Connection Agreements 974](#_Toc256001388)

[Part ZZZL Generator three year notice of closure 975](#_Toc256001389)

[11.110 Rules consequential on the making of the National Electricity Amendment (Generator three year notice of closure) Rule 2018 975](#_Toc256001390)

[11.110.1 Definitions 975](#_Toc256001391)

[11.110.2 AER to develop and publish notice of closure exemption guideline 975](#_Toc256001392)

[11.110.3 Application of Amending Rule to AEMO 975](#_Toc256001393)

[11.110.4 Application of Amending Rule to Generators 975](#_Toc256001394)

[Part ZZZM Participant compensation following market suspension 976](#_Toc256001395)

[11.111 Rules consequential on the making of the National Electricity Amendment (Participant compensation following market suspension) Rule 2018 976](#_Toc256001396)

[11.111.1 Definitions 976](#_Toc256001397)

[11.111.2 Market suspension compensation methodology and schedule of benchmark values 976](#_Toc256001398)

[Part ZZZN Global settlement and market reconciliation 976](#_Toc256001399)

[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 976](#_Toc256001400)

[11.112.1 Definitions 976](#_Toc256001401)

[11.112.2 Amendments to AEMO procedures 977](#_Toc256001402)

[11.112.3 AEMO to publish report on unaccounted for energy trends 977](#_Toc256001403)

[11.112.4 Continuation of registration for non-market generators 977](#_Toc256001404)

[11.112.5 Publication of UFE data by AEMO 978](#_Toc256001405)

[11.112.6 Publication of UFE reporting guidelines 978](#_Toc256001406)

[Part ZZZO Metering installation timeframes 978](#_Toc256001407)

[11.113 Rules consequential on making of the National Electricity Amendment (Metering installation timeframes) Rule 2018 978](#_Toc256001408)

[11.113.1 Definitions 978](#_Toc256001409)

[11.113.2 Timeframes for meters to be installed 978](#_Toc256001410)

[Part ZZZP Early implementation of ISP priority projects 979](#_Toc256001411)

[11.114 National Electricity Amendment (Early implementation of ISP priority projects) Rule 2019 979](#_Toc256001412)

[11.114.1 Definitions 979](#_Toc256001413)

[11.114.2 Modifications to clause 5.16.6 for ISP VNI and QNI projects 980](#_Toc256001414)

[11.114.3 Modifications to clause 6A.8.2 for ISP projects 981](#_Toc256001415)

[Part ZZZQ Enhancement to the Reliability and Emergency Reserve Trader 983](#_Toc256001416)

[11.115 Rules consequential on the making of the National Electricity Amendment (Enhancement to the reliability and emergency reserve trader) Rule 2019 983](#_Toc256001417)

[11.115.1 Definitions 983](#_Toc256001418)

[11.115.2 New RERT guidelines 984](#_Toc256001419)

[11.115.3 Amendments to RERT procedures 984](#_Toc256001420)

[11.115.4 Reserve contracts entered into before the commencement date 984](#_Toc256001421)

[11.115.5 Clause 3.20.6 (Reporting on RERT by AEMO) 984](#_Toc256001422)

[Part ZZZR Retailer Reliability Obligation 984](#_Toc256001423)

[11.116 Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation) Rule 2019 984](#_Toc256001424)

[11.116.1 Application 984](#_Toc256001425)

[11.116.2 Reliability Instrument Guidelines 985](#_Toc256001426)

[11.116.3 Forecasting Best Practice Guidelines 985](#_Toc256001427)

[11.116.4 Reliability Forecast Guidelines 985](#_Toc256001428)

[11.116.5 AER Opt-in Guidelines 986](#_Toc256001429)

[11.116.6 Contracts and Firmness Guidelines 986](#_Toc256001430)

[11.116.7 Qualifying contracts under interim Contracts and Firmness Guidelines 986](#_Toc256001431)

[11.116.8 Grandfathering arrangements 987](#_Toc256001432)

[11.116.9 Reliability Compliance Procedures and Guidelines 988](#_Toc256001433)

[11.116.10 MLO Guidelines 988](#_Toc256001434)

[11.116.11 Application of Part G, Divisions 2 – 6 (inclusive) 988](#_Toc256001435)

[11.116.12 Interim deeming of MLO generators and MLO groups 989](#_Toc256001436)

[11.116.13 MLO information template 996](#_Toc256001437)

[11.116.14 Initial MLO register 996](#_Toc256001438)

[11.116.15 Approved MLO products list 996](#_Toc256001439)

[11.116.16 Designated MLO exchange 996](#_Toc256001440)

[11.116.17 Five minute settlement intervals 996](#_Toc256001441)

[11.116.18 Review by AEMC 997](#_Toc256001442)

[Part ZZZS Transparency of new projects 997](#_Toc256001443)

[11.117 Rules consequential on the making of the National Electricity Amendment (Transparency of new projects) Rule 2019 997](#_Toc256001444)

[11.117.1 Definitions 997](#_Toc256001445)

[11.117.2 Generation information page 997](#_Toc256001446)

[11.117.3 Generation information guidelines 997](#_Toc256001447)

[11.117.4 Provision and use of information 998](#_Toc256001448)

[Part ZZZT Demand management incentive scheme and innovation allowance for TNSPs 998](#_Toc256001449)

[11.118 Rules consequential on the making of the National Electricity Amendment (Demand management incentive scheme and innovation allowance for TNSPs) Rule 2019 998](#_Toc256001450)

[11.118.1 Definitions 998](#_Toc256001451)

[11.118.2 AER to develop and publish the demand management innovation allowance mechanism 999](#_Toc256001452)

[Part ZZZU Application of the regional reference node test to the Reliability and Emergency Reserve Trader 999](#_Toc256001453)

[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 999](#_Toc256001454)

[11.119.1 Definitions 999](#_Toc256001455)

[11.119.2 AEMO intervention event in effect on commencement date 999](#_Toc256001456)

[Part ZZZV Improving Transparency and Extending Duration of MT PASA 999](#_Toc256001457)

[11.120 Rules consequential on the making of the National Electricity Amendment (Improving transparency and extending duration of MT PASA) Rule 2020 999](#_Toc256001458)

[11.120.1 AEMO to update spot market operations timetable 999](#_Toc256001459)

[Part ZZZW Victorian jurisdictional derogation – RERT contracting 1000](#_Toc256001460)

[11.121 Rules consequential on the making of the National Electricity Amendment (Victorian jurisdictional derogation - RERT contracting) Rule 2020 1000](#_Toc256001461)

[11.121.1 Definitions 1000](#_Toc256001462)

[11.121.2 Procedures 1000](#_Toc256001463)

[Part ZZZX Mandatory primary frequency response 1000](#_Toc256001464)

[11.122 Rules consequential on the making of the National Electricity Amendment (Mandatory primary frequency response) Rule 2020 1000](#_Toc256001465)

[11.122.1 Definitions 1000](#_Toc256001466)

[11.122.2 Interim Primary Frequency Response Requirements 1000](#_Toc256001467)

[11.122.3 Action taken prior to commencement 1001](#_Toc256001468)

[Part ZZZY System restart services, standards and testing 1001](#_Toc256001469)

[11.123 Rules consequential on the making of the National Electricity Amendment (System restart services, standards and testing) Rule 2020 1001](#_Toc256001470)

[11.123.1 Definitions 1001](#_Toc256001471)

[11.123.2 SRAS Guideline 1002](#_Toc256001472)

[11.123.3 System restart standard 1002](#_Toc256001473)

[11.123.4 Communication protocols 1002](#_Toc256001474)

[11.123.5 System restart tests 1002](#_Toc256001475)

[Part ZZZZ Introduction of metering coordinator planned interruptions 1003](#_Toc256001476)

[11.124 Rules consequential on the making of the National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020 1003](#_Toc256001477)

[11.124.1 Definitions 1003](#_Toc256001478)

[11.124.2 Amendments of the metrology procedure 1003](#_Toc256001479)

[11.124.3 Market Settlement and Transfer Solutions Procedures 1003](#_Toc256001480)

[11.124.4 Requirements of the metrology procedure 1003](#_Toc256001481)

[Part ZZZZA Wholesale demand response 1004](#_Toc256001482)

[11.125 Rules consequential on the making of the National Electricity Amendment (Wholesale demand response mechanism) Rule 2020 1004](#_Toc256001483)

[11.125.1 Definitions 1004](#_Toc256001484)

[11.125.2 Wholesale demand response guidelines 1005](#_Toc256001485)

[11.125.3 Baseline methodologies 1005](#_Toc256001486)

[11.125.4 Wholesale demand response participation guidelines 1005](#_Toc256001487)

[11.125.5 Extension of time for registration and aggregation 1005](#_Toc256001488)

[11.125.6 Amendments to AEMO, AER and AEMC documents 1006](#_Toc256001489)

[11.125.7 Amendments to the demand side participation information guidelines 1007](#_Toc256001490)

[11.125.8 Amendment to RERT guidelines 1007](#_Toc256001491)

[11.125.9 Renaming of Market Ancillary Service Providers 1007](#_Toc256001492)

[11.125.10 Wholesale demand response annual reporting 1007](#_Toc256001493)

[Part ZZZZB Integrated System Planning Rules 1008](#_Toc256001494)

[11.126 Rules consequential on the making of the National Electricity Amendment (Integrated System Planning) Rule 2020 1008](#_Toc256001495)

[11.126.1 Definitions 1008](#_Toc256001496)

[11.126.2 2020 Integrated System Plan 1008](#_Toc256001497)

[11.126.3 Existing actionable ISP projects 1009](#_Toc256001498)

[11.126.4 Existing actionable ISP projects at the clause 5.16.6 stage 1009](#_Toc256001499)

[11.126.5 Existing actionable ISP projects prior to the clause 5.16.6 stage 1009](#_Toc256001500)

[11.126.6 Existing RIT-T proponent has published a PSCR but not a PADR 1010](#_Toc256001501)

[11.126.7 Cost Benefit Analysis Guidelines 1010](#_Toc256001502)

[11.126.8 Forecasting Best Practice Guidelines 1010](#_Toc256001503)

[11.126.9 Methodologies and reports 1011](#_Toc256001504)

[11.126.10 AEMC review of ISP framework 1011](#_Toc256001505)

[Part ZZZZC Deferral of network charges 1011](#_Toc256001506)

[11.127 Transitional arrangements made by the National Electricity Amendment (Deferral of network charges) Rule 2020 No. 11 1011](#_Toc256001507)

[11.127.1 Definitions 1011](#_Toc256001508)

[11.127.2 Deferral of payment of network charges 1012](#_Toc256001509)

[11.127.3 Deferral of payment of charges for prescribed transmission services 1013](#_Toc256001510)

[11.127.4 AER reporting 1014](#_Toc256001511)

[11.127.5 Application of this Part 1014](#_Toc256001512)

[Part ZZZZD Interim reliability measure 1015](#_Toc256001513)

[11.128 Rules consequential on the making of the National Electricity Amendment (Interim reliability measure) Rule 2020 1015](#_Toc256001514)

[11.128.1 Definitions 1015](#_Toc256001515)

[11.128.2 Expiry date 1015](#_Toc256001516)

[11.128.3 Application of rule 3.20 1015](#_Toc256001517)

[11.128.4 Reserve contracts for interim reliability reserves 1015](#_Toc256001518)

[11.128.5 Interim reliability reserves – reporting 1017](#_Toc256001519)

[11.128.6 AEMO exercise of RERT 1018](#_Toc256001520)

[11.128.7 RERT guidelines 1018](#_Toc256001521)

[11.128.8 RERT procedures 1019](#_Toc256001522)

[11.128.9 Reliability standard implementation guidelines 1019](#_Toc256001523)

[11.128.10 AEMO preparatory activities 1019](#_Toc256001524)

[11.128.11 Reserve contracts entered into before the commencement date 1019](#_Toc256001525)

[11.128.12 Review by the AEMC 1019](#_Toc256001526)

[Part ZZZZE Removal of intervention hierarchy 1020](#_Toc256001527)

[11.129 Rules consequential on making of the National Electricity Amendment (Removal of intervention hierarchy) Rule 2020 1020](#_Toc256001528)

[11.129.1 Definitions 1020](#_Toc256001529)

[11.129.2 Procedures 1021](#_Toc256001530)

[Part ZZZZF Reallocation of National Transmission Planner costs 1021](#_Toc256001531)

[11.130 Rule consequential on the making of the National Electricity Amendment (Reallocation of National Transmission Planner costs) Rule 2020 1021](#_Toc256001532)

[11.130.1 Allocation of NTP costs 1021](#_Toc256001533)

[Part ZZZZG Transparency of unserved energy calculation 1023](#_Toc256001534)

[11.131 Rules consequential on the making of the National Electricity Amendment (Transparency of unserved energy calculation) Rule 2020 No. 16 1023](#_Toc256001535)

[11.131.1 AEMO to update the reliability standard implementation guidelines 1023](#_Toc256001536)

[Part ZZZZH Retailer Reliability Obligation trigger 1023](#_Toc256001537)

[11.132 Rules consequential on the making of the National Electricity Amendment (Retailer Reliability Obligation trigger) Rule 2020 1023](#_Toc256001538)

[11.132.1 Definitions 1023](#_Toc256001539)

[11.132.2 Reliability standard 1023](#_Toc256001540)

[11.132.3 AEMO request for a T-3 reliability instrument 1023](#_Toc256001541)

[11.132.4 When a decision by the AER must be made 1023](#_Toc256001542)

[11.132.5 Reliability Forecast Guidelines 1024](#_Toc256001543)

[11.132.6 AEMO preparatory activities 1024](#_Toc256001544)

[11.132.7 AER preparatory activities 1024](#_Toc256001545)

[Part ZZZZI Compensation following directions for services other than energy and market ancillary services 1024](#_Toc256001546)

[11.133 Rules consequential on the making of the National Electricity Amendment (Compensation following directions for services other than energy and market ancillary services) Rule 2020 1024](#_Toc256001547)

[11.133.1 Definitions 1024](#_Toc256001548)

[11.133.2 Compensation process in effect on commencement date 1024](#_Toc256001549)

[11.133.3 Direction in effect on commencement date 1025](#_Toc256001550)

[Part ZZZZJ Prudent discounts in an adoptive jurisdiction 1025](#_Toc256001551)

[11.134 Rules consequential on the making of the National Electricity Amendment (Prudent discounts in an adoptive jurisdiction) Rule 2020 No. 19 1025](#_Toc256001552)

[11.134.1 Definitions 1025](#_Toc256001553)

[11.134.2 Prudent discount application before commencement date 1025](#_Toc256001554)

[Part ZZZZK Technical standards for Distributed Energy Resources 1026](#_Toc256001555)

[11.135 Rules consequential on the making of the National Electricity Amendment (Technical standards for Distributed Energy Resources) Rule 2021 No. 1 1026](#_Toc256001556)

[11.135.1 Definitions 1026](#_Toc256001557)

[11.135.2 Application of the Amending Rule to existing connection applications 1026](#_Toc256001558)

[11.135.3 Application of the Amending Rule to existing offers 1026](#_Toc256001559)

[11.135.4 Application of the Amending Rule to existing connection contracts 1027](#_Toc256001560)

[Part ZZZZL Semi-scheduled generator dispatch obligations 1027](#_Toc256001561)

[11.136 Rules consequential on the making of the National Electricity Amendment (Semi-scheduled generator dispatch obligations) Rule 2021 1027](#_Toc256001562)

[11.136.1 AEMO to update power system operating procedure 1027](#_Toc256001563)

[11A. NT Savings and Transitional Rules 1031](#_Toc256001564)

[Part A Savings and transitional rules for Chapter 5 1031](#_Toc256001565)

[11A.1 Chapter 5 provisions 1031](#_Toc256001566)

[Part B Savings and transitional rules for Chapter 5A 1031](#_Toc256001567)

[11A.2 Model standing offers 1031](#_Toc256001568)

[11A.2.1 Definitions 1031](#_Toc256001569)

[11A.2.2 Extended meaning of some terms 1032](#_Toc256001570)

[11A.2.3 Transitional operation of relevant provisions 1032](#_Toc256001571)

[11A.2.4 Exclusions, qualifications and modifications 1032](#_Toc256001572)

[11A.2.5 References 1033](#_Toc256001573)

[Part C Savings and transitional rules for Chapter 7A 1033](#_Toc256001574)

[11A.3 Existing metering installations 1034](#_Toc256001575)

[11A.4 Testing metering installations 1034](#_Toc256001576)

[11A.5 Metering data services database and related requirements 1035](#_Toc256001577)

[11A.6 Communication guideline 1036](#_Toc256001578)

[11A.7 Timeframes for meters to be installed 1036](#_Toc256001579)