

Technical Rules exemptions granted by Western Power

Exemptions currently in force

| Exemption owner | Applicable clause(s) | Date granted | Date expiring | Exemption details |
|---------------------------------|---|--------------|---------------|--|
| Neerabup Units G11 & G12 | Technical Rules 2007; Clause 3.3.3.1 (a) | 16 Jan 2008 | Ongoing | Reactive power capability Modified performance criteria: 0.8 Lagging 101.3 MVAR 0.9 Leading 68.5 MVAR Financial contribution for the shortfall in reactive power capability, pursuant to clause 3.3.3.1(d). |
| Neerabup Units G11 & G12 | Technical Rules 2007; Clause 3.3.3.3 (b) | 16 Jan 2008 | Ongoing | Off-nominal frequency capability Modified performance criteria: 47.0 – 47.5 Hz 20 seconds 47.5 – 51.5 Hz continuous 51.5 – 52.0 Hz 20 seconds 52.0 – 52.5 Hz 0 seconds Constrained operation for SWIS load below 1960MW. |
| Bluewaters Power Station Unit 2 | Technical Rules 2007; Clause 3.3.3.5 | 29 Jan 2008 | Ongoing | Ramping rate Modified performance criteria: Increasing output by 10 MW in the first 10 seconds. After one minute increasing output at a rate of 3 per minute. Reflects realistic performance capability of the plant. |
| Bluewaters Power Station Unit 2 | Technical Rules 2007; Clause 3.3.3.1 | 24 Aug 2011 | Ongoing | Reactive power capability Modified performance criteria: For steady state voltages from 90.5% to 90% of the rated voltage at the connection point, the required reactive power absorption is at least the amount equal to the product of the rated active power output of the generation unit at nominal voltage and 0.441. |

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| Collgar Wind Farm | Technical Rules 2007; Clause 3.3.3.10 (c)(1) | 4 Sep 2009 | Ongoing | De-energisation of generator circuits Modified primary switchyard arrangement, with no circuit breakers in the generator's switchyard. Deemed to be technically and commercially optimal arrangement. Financial contribution made for the switchyard. |
| Collgar Wind Farm | Technical Rules 2007; Clause 2.2.10 Figure 2.1 | 7 Oct 2009 | Ongoing | Overvoltage performance Modified performance criteria allows alternative overvoltage capability curve as proposed by the generator to apply in lieu of one in clause 2.2.10, Figure 2.1. The connection point site-specific overvoltage performance requirements (as assessed by Western Power) are met by the generators over voltage capability. |
| Collgar Wind Farm | Technical Rules 2011; Clause 3.3.3.3 (h)(2) | 21 Jun 2013 | Ongoing | Active power recovery time The output returns to pre-fault output within 1000 milliseconds. There are no adverse impacts on the network or the other Users. |
| Tesla, Harris Road, Leeming Road, Deepdale Road and Kemerton 10.0 MW Power Stations | Technical Rules 2007; Clause 3.3.1 (c) | 10 Jun 2010 | Ongoing | Requirements for generator units (general) Modified performance allows the units to be classed under clause 3.6 for small generators. Initial misinterpretation of the applicable requirements (by both Western Power and Tesla) and advanced stage of these projects at the time the correct interpretation became apparent. |

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| Synergy | Technical Rules 2007; Clause 3.7.8.3(b) | 23 Mar 2011 | Ongoing | Inspection and testing Inspection and testing requirements waived, pursuant to the Office of Energy's Final Outcomes Report and subsequent recommendation to change the Technical Rules accordingly. |
| Grasmere Wind Farm | Technical Rules 2007; Clause 3.2.2 | 25 Oct 2010 | Ongoing | Main switch Modified requirement allows for utilisation of Western Power feeder circuit breaker to de-energise wind farm in lieu of wind farm 'main switch'. Integration into Albany zone substation and existing voltage control scheme via the 3rd 'identical 22kV (wind farm) feeder' is deemed the best solution. Additional cost of technical compliance would increase operational complexity and not provide any tangible benefit. Financial contribution made for the switchyard. |
| Grasmere Wind Farm | Technical Rules 2011; Clause 3.3.4.5(g) Table 3.2 | 14 Feb 2013 | Ongoing | Rise time The maximum permitted rise time is modified to 3.0 seconds. There is no benefit in these particular circumstances in requiring modification of the integrated Albany wind farm control scheme (of which Grasmere is Stage 2) to achieve compliance. |
| Extension Hill Pty Ltd (EHPL) | Technical Rules 2011; Clause 3.2.2 | 23 Feb 2012 | Ongoing | Main switch Modified requirement allows for utilisation of Western Power circuit breaker to de-energise the load in the initial connection scenario. There is no benefit in these particular circumstances in requiring EHPL to install its own 330kV main switch at Three Springs Terminal. |

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| Karara Power Pty Ltd (KPPL) | Technical Rules 2011; Clause 3.2.2 | 18 Apr 2012 | Ongoing | Main switch Modified requirement allows for utilisation of Western Power circuit breakers to de-energise transmission load. There is no benefit in these particular circumstances in requiring KPPL to install its own 132kV main switch at Eneabba substation and 330kV main switch at Three Springs Terminal. |
| Public Transport Authority: City railway substation | Technical Rules 2011; Clause 3.2.1 (d)(2) | 25 Sep 2012 | Ongoing | Negative phase sequence Two-phase connection accepted. The exemption is granted pursuant to clause 1.9.4(a), as the project was well advanced before 23 Dec 2011, being the commencement date for the revised Technical Rules (current) in which clause 3.2.1(d)(2) was materially changed. |
| West Hills and Anderson Wind Farm | Technical Rules 2011; Clause 2.9.2 (b) | 6 Nov 2012 | Ongoing | Duplication of protection Two external generator protection relays are supplied from a single voltage transformer (VT). In case of loss of the VT input to the protection relay, the VT supervision function of the relay will send the trip signal to disconnect the wind farm, which is considered as an acceptable functional alternative to duplication of the VTs. |
| Verve Energy Muja D | Technical Rules 2011; Clause 2.2.8 (a) 2.2.8 (b) | 17 Jan 2013 | Ongoing | Damping of oscillations The modified respective damping ratios must be at least 0.07 and 0.27. The performance (after automatic voltage regulator replacement) is at least equivalent to the previous performance. |

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| Verve Energy Kwinana HEGT 200MW Power Station | Technical Rules 2011; Clause 2.2.8 (a) 2.2.8 (b) | 17 Jan 2013 | Ongoing | <i>Damping of oscillations</i> Power system studies and commissioning test results that showed that connection of the Kwinana HEGT power station with modified damping ratios will cause no adverse impact on the South West Interconnected System. |
| Kwinana Donaldson Road Power Station Unit 1 & Unit 2 | Technical Rules 2011; Clause 2.2.8 (a) 2.2.8 (b) | 23 Dec 2013 | Ongoing | <i>Damping of oscillations</i> The analysis conducted by Western Power determined that the modified damping of oscillations requirements at this location do not create material impact on Western Power's network performance and other customers for the currently installed power station capacity. |
| Dradgin Pty Ltd Subiaco | Technical Rules 2011; Clause 3.6.10.1 (a) | 2 Oct 2014 | Ongoing | <i>Protection (location)</i> Modified requirement for all protection functions equipment specified in 3.6.10 to be located as close as practicable to the connection point. |
| Dradgin Pty Ltd Subiaco | Technical Rules 2016; Clause 3.6.10.1 (g) 3.3.1 (g) | 10 Aug 2018 | Ongoing | <i>Protection (location)</i> Extending a previously granted exemption for location of protection function equipment to another impacted clause. |
| Brockway DiCOM Facility Pty Ltd Shenton Park PPG | Technical Rules 2011; Clause 3.6.10.1 (a) | 28 Apr 2015 | Ongoing | <i>Protection (location)</i> Modified requirement for all protection functions equipment specified in 3.6.10 to be located as close as practicable to the connection point. |

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| NewGen Power Station Kwinana | Technical Rules 2011; Clause 3.3.4.5 Table 3.1 | 16 Aug 2017 | 31 Dec 2019 | Voltage control system Amended settling requirements reflect proven plant performance capability. |
| Emu Downs Wind Farm | Technical Rules 2016; Clause 3.3.3.1 (c)(2) | 1 Mar 2017 | Extended to 30 Jun 2019 | Reactive power capability Modified requirement reflects realistic performance capability of the plant. |
| Flat Rocks Wind Farm | Technical Rules 2016; Clause 3.3.4.4 (f)(2) | 16 Aug 2017 | 31 Dec 2019 | Frequency control rate of response Modified requirement reflects realistic performance capability of the plant. |
| Public Transport Authority: Nowergup railway substation | Technical Rules 2016; Clause 3.4.7 (a) | 23 Aug 2017 | 31 Dec 2019 | Power factor requirements Modified power factor requirements for this connection point apply. |
| Inmarsat Solutions BV | Technical Rules 2016; Clause 3.6.2 (c)(2) | 25 Aug 2017 | 1 Jul 2027 | Connection voltage requirements Modified requirement for User voltage at the connection point to accommodate specific equipment installed. There is no adverse impact on other User or the network. |

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|--|--|------------------------|---------------------------|---|
| General Notification: Two phase supply option for transmission connections | Technical Rules 2016; Clause 3.2.1 (d)(2) | 23 Aug 2017 | 31 Dec 2019 | Two phase supply Modified requirements for Users connected to transmission system, allowing a two phase connection where specific set of conditions are demonstrated to have been met. An exemption application for each qualifying connection point is still required. A separate list of exemption recipients is maintained. |
| General Notification: Protection requirements for inverter systems between 30 kVA and 1 MVA | Technical Rules 2016; Clause 3.6.10.1 (d) 3.6.10.1 (g) | Revised 11 Sep 2017 | 31 Dec 2019 | Protection requirements Users/Generators connected to distribution network via AS/NZS 4777 certified inverter, of aggregate capacity between 30 kVA and 1 MVA can request exemption from clause 3.6.10.1 (d) of the Technical Rules. If they also meet further criteria, additional exemption for 3.6.10.1 (g) can also be granted. A separate list of exemption recipients is maintained. |
| General Notification: Multi residential connection points aggregate inverter capacity up to 500 kVA | Technical Rules 2016; Clause 3.6 | 23 Oct 2017 | 31 Dec 2019 | All requirements Owners of shared <i>connection points</i> can apply for an exemption from clause 3.6 of the Technical Rules, and have small residential inverter energy systems (under 5 kVA each) considered under clause 3.7 of the Technical Rules. Certain criteria must be met and each application is individually assessed. A separate list of exemption recipients is maintained. |
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2016; Clause 3.3.3.1 (c)(1)(A) | 26 Sep 2017 | Extended to 1 Oct 2019 | Reactive power capability Agreed performance parameters have been adjusted to reflect the change in <i>Users</i> operating conditions. |

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|---|---|-----------------------------------|---------------------------|---|
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2016; Clause 3.3.3.1 (c)(1)(B) | 26 Sep 2017 | Extended to 1 Oct 2019 | Reactive power capability Agreed performance parameters have been adjusted to reflect the change in Users operating conditions. |
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2016; Clause 3.3.3.5 (a) | 26 Sep 2017 for 1 Oct 2018* | 1 Oct 2019 | Ramping Rates A temporary change in the required performance parameters while tests are under way to ascertain true capability of the plant. |
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2016; Clause 3.3.4.4 (f)(1) | 26 Sep 2017 | Extended to 1 Oct 2019 | Rate of response Modified requirement reflects realistic performance capability of the plant. |
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2016; Clause 3.3.4.5 (f) | 26 Sep 2017 | Extended to 1 Oct 2019 | Settling time Modified requirement reflects realistic and proven performance capability of the plant. |
| Bluewaters Power Station | Technical Rules 2016; Clause 3.3.4.4 | 9 Nov 2017 | 30 Nov 2019 | Frequency Control Modified performance requirements are applicable to the installation for Dead band (clause 3.3.4.4 (d)), Control range (clause 3.3.4.4 (e)(1)(D)) and Rate of response (clause 3.3.4.4 (f)(1)), with parameters reflecting realistic performance capability of the plant. |

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|------------------------------|--|--------------|---------------|---|
| Collgar Wind Farm | Technical Rules 2016; Clause 3.3.4.4 (d) | 6 Sep 2017 | 31 Dec 2019 | Frequency Control Modified performance requirements are applicable to the installation for Dead band (clause 3.3.4.4. (d)), with parameters reflecting performance capabilities of the plant. |
| Windsor Knight | Technical Rules 2016; Clause A12.10.6 | 17 Jan 2018 | 31 Dec 2019 | Power Quality logging requirements The Power Quality logging requirements for the premises at Station St, Subiaco location, have been amended to reflect what is realistically possible. |
| Merredin Solar Farm | Technical Rules 2016; Clause 3.3.3.3 (h)(2) | 30 Apr 2018 | 30 Apr 2020 | Continuous Uninterrupted Operation The <i>active power</i> output performance limits have been adjusted to reflect realistic performance capability of the installation. |
| Sun Brilliance Power Pty Ltd | Technical Rules 2016; Clause 3.3.3.3 (h)(2) | 30 Apr 2018 | 30 Apr 2020 | Continuous Uninterrupted Operation The <i>active power</i> output performance limits have been adjusted to reflect realistic performance capability of the installation. |
| Landfill Gas & Power Pty Ltd | Technical Rules 2016; Clause 3.6.11 | 30 Apr 2018 | 31 Mar 2019 | Intertripping A temporary change in performance requirements while a compliant solution is implemented. |

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|-----------------------------|--|--------------|----------------------------|--|
| Mumbida Wind Farm Pty Ltd | Technical Rules 2016; Clause 3.3.4.5 (g)(3) | 11 Jun 2018 | Extended to 31 Jan 2019 | Settling time A temporary exemption allowing time for a compliant solution to be implemented. |
| Pearl Clean Energy Pty Ltd | Technical Rules 2016; Clause 3.7.3 (d) | 15 Aug 2018 | 31 Jan 2019 | Relevant standards A temporary exemption allowing time for testing of an inverter type/make for suitability to intended purpose. |
| Scotch College Upper School | Technical Rules 2016; Clause 3.6.7.2 (a) | 22 Oct 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |
| EMP Pty Ltd | Technical Rules 2016; Clause 3.6.7.2 (a) | 22 Oct 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |
| Badgingarra Wind Farm | Technical Rules 2016; Clause 3.3.4.4 (f)(2) | 07 Nov 2018 | 31 Dec 2020 | Frequency Control Modified performance requirements for Rate of response reflecting realistic performance capability of the plant at present time. |

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|------------------------------|--|--------------|---------------|--|
| Warradarge Wind Farm | Technical Rules 2016; Clause 3.3.4.4 (f)(2) | 07 Nov 2018 | 31 Dec 2020 | Frequency Control Modified performance requirements for Rate of response reflecting realistic performance capability of the plant at present time. |
| JMark Pty Ltd | Technical Rules 2016; Clause 3.6.7.2 (a) | 19 Nov 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |
| Metzke Pty Ltd | Technical Rules 2016; Clause 3.6.7.2 (a) | 19 Nov 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |
| Christ Church Grammar School | Technical Rules 2016; Clause 3.6.7.2 (a) | 19 Nov 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |
| Strata Scheme 62122 | Technical Rules 2016; Clause 3.6.7.2 (a) | 19 Nov 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |

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| Falcon Bay Pty Ltd | Technical Rules 2016; Clause 3.6.7.2 (a) | 19 Nov 2018 | Ongoing | Customer Main Switch Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. |

* Commencement date for the exemption was in the future at the time of the assessment (and granting).

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Exemptions that have expired or no longer required

***Retired** – The original exemption has expired and there is no new exemption. The non-compliance is no longer present.

***Expired** – The original exemption has expired and been replaced with a new one. The non-compliance is still present.

***Under review** – The original exemption has expired and no new exemption has been issued. The status of the non-compliance is being investigated or negotiations are under way regarding resolution.

| Exemption granted to: | Applicable clause(s) | Exemption granted | Exemption expiring | Exemption details | Status |
|--|---|-------------------|--------------------|---|--------------|
| Bluewaters Power Station Unit 1 & Unit 2 | Technical Rules 2011; Clause 3.3.4.4 | 06 Jul 2016 | 30 Jun 2017 | Primary frequency control Amended requirements reflect present tested performance capability of plant. | Expired |
| Alinta Cogeneration Pinjarra Power Station Unit 1 & Unit 2 | Technical Rules 2011; Clause 3.3.4.4 | 20 Jan 2014 | 31 Mar 2015 | Primary frequency control Exemption granted in order to allow sufficient time for the investigation and implementation of a solution in line with the capability of the units and the governor compliance issues. | Under review |
| Ferngrove Vineyards Ltd 200kVA Solar PV Power Station | Technical Rules 2011; Clause 3.6.10.1(g) 2.9.2(b) | 7 Mar 2014 | 31 Dec 2014 | Protection (general) and duplication of protection Temporary exemption to allow for the installation of voltage transformer and NVD protection. | Retired |

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| Mitchell Foods Pty Ltd 150kVA Solar PV Power Station | Technical Rules 2011; Clause 3.2.1(c)(3) | 29 Apr 2014 | 31 Jul 2014 | Harmonics Exemption granted to allow sufficient time for the procurement of an isolation transformer and installation and completion of the final facility to achieve compliance. | Retired |
| Department of Defence; Carnegie Wave Energy Unit | Technical Rules 2011; Clause 3.6.10 | 2 Jan 2015 | 2 Jan 2016 | Protection Exemption allows variation of protection requirements to allow sufficient time for Department of Defence to upgrade protection equipment and switchboards at the connection point. | Under review |
| Low voltage, inverter connected generator systems, rated between 30kVA and 150 kVA | Technical Rules 2011; Clause 3.6.10.1(g) | 1 Dec 2014 | 31 Aug 2016 | Network Earth Fault (E/F) Protection E/F and Neutral Voltage Displacement (NVD) protection requirements will be assessed on a case by case basis by Western Power. Number of Exemptions (to 31-Aug-2017): 239 | Expired |
| Low voltage connection points | Technical Rules 2011; Clause 3.2.1(c)(3) | 15 May 2015 | 1 Aug 2016 | Modified DC Injection Limits Users must complete the 'Technical Rules Direct Current (DC) Injection Transition Exemption form available on the Western Power web site and meet the requirements therein. Number of Exemptions (to retirement): 75 | Retired |

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|---|---|-------------------|--------------------|---|---------|
| Inverter connected generation units 30 kVA to 150 kVA | Technical Rules 2011; Clause 2.9.2 (b) | 23 Jan 2013 | Ongoing | Duplication of protection One (only) IEC60255 compliant external generator protection relay required in conjunction with protections integral to AS4777-2005 compliant inverters in the capacity range of 30 to 150 kVA. Number of Exemptions (to 31-Aug-2017): 211 | Expired |
| Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2 | Technical Rules 2011; Clause 3.3.4.4 | 20 Jan 2014 | 31 Dec 2014 | Primary frequency control Exemption granted in order to allow sufficient time for the investigation and implementation of a solution in line with the capability of the units and the governor compliance issues. | Expired |
| Bluewaters Power Station Unit 1 & Unit 2 | Technical Rules 2007; Clause 3.3.4.4 (b) | 17 Sep 2013 | 8 Dec 2015 | Primary frequency control Temporary exemption to complete repairs. Reasonable repair time frame agreed to suit both parties in order to bring the Units back into compliance. | Expired |
| NewGen Power Station Kwinana | Technical Rules 2011; Clause 3.3.4.4 | 20 Jan 2014 | 30 Jun 2014 | Primary frequency control Exemption granted in order to allow sufficient time for the investigation and implementation of a solution in line with the capability of the units and the governor compliance issues. | Expired |
| NewGen Power Station Kwinana | Technical Rules 2011; Clause 3.3.3.3 (d) | 17 Jun 2016 | 30 Jun 2018 | Rate of change of frequency (RoCoF) Amended requirements reflect realistic performance capability of plant. | Expired |

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| NewGen Power Station ERM Neerabup | Technical Rules 2016; Clause 3.3.4.4(f)(1) | 12 Sep 2016 | Extended to 31 Oct 2017 | <i>Frequency control</i> Investigation into maximum 'rate of response' capability of plant. | Expired |