

Technical Rules exemptions granted by Western Power

Exemptions currently in force (as at 30 June 2019)

Exemption granted to:	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.



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Bluewaters Power Station Unit 2	Technical Rules 2007; Clause 3.3.3.1	24 Aug 2011	Ongoing	<i>Reactive power capability</i> 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.
Bluewaters Power Station Unit 1 & Unit 2	Technical Rules 2011; Clause 3.3.4.4	06 Jul 2016	Extended to 30 Nov 2019	<i>Primary frequency control</i> Amended requirements reflect present tested performance capability of plant.
Collgar Wind Farm	Technical Rules 2007; Clause 3.3.3.10 (c)(1)	4 Sep 2009	Ongoing	<i>De-energisation of generator circuits</i> 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	<i>Overvoltage performance</i> 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	<i>Active power recovery time</i> The output returns to pre-fault output within 1000 milliseconds. There are no adverse impacts on the network or the other Users.

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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	<i>Requirements for generator units (general)</i> 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.
Synergy	Technical Rules 2007; Clause 3.7.8.3(b)	23 Mar 2011	Ongoing	<i>Inspection and testing</i> 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	<i>Main switch</i> 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	<i>Rise time</i> 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.

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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.
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.

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Verve Energy Muja D	Technical Rules 2011; Clause 2.2.8 (a) 2.2.8 (b)	17 Jan 2013	Ongoing	<i>Damping of oscillations</i> 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.
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.

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Dradgin Pty Ltd Subiaco	Technical Rules 2016; Clause 3.6.10.1 (g) 3.3.1 (g)	10 Aug 2018	Ongoing	Protection (location) 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	Protection (location) Modified requirement for all protection functions equipment specified in 3.6.10 to be located as close as practicable to the connection point.
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 2021	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.

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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.
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 register 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 register of exemption recipients is maintained.

Exemption granted to:	Applicable clause(s)	Date granted	Date expiring	Exemption details
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 register 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.
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 <i>Users</i> 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.

Exemption granted to:	Applicable clause(s)	Date granted	Date expiring	Exemption details
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.
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.

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Merredin Solar Farm	Technical Rules 2016; Clause 3.3.3.3 (h)(2)	30 Apr 2018	30 Apr 2020	<i>Continuous Uninterrupted Operation</i> 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	<i>Continuous Uninterrupted Operation</i> 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	Extended to 31/10/2019	<i>Intertipping</i> A temporary change in performance requirements while a compliant solution is implemented.
Multiple exemptions: Main Switch requirements for LV connected, <1MVA embedded generation	Technical Rules 2016; Clause 3.6.7.2 (a)	22 Oct 2018	Ongoing	<i>Customer Main Switch</i> Provision for embedded generation with multiple switches. Does not waive <i>connection point</i> aggregate requirements. An exemption application for each qualifying connection point is still required. A register of exemption recipients is maintained.

Exemption granted to:	Applicable clause(s)	Date granted	Date expiring	Exemption details
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.
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.
Alinta Wagerup	Technical Rules 2016; Clause 3.3.4.4 (f)(1)	18 Feb 2019	30 Sep 2022	Frequency Control Modified performance requirements for Rate of response reflecting realistic performance capability of the plant at present time.
Alinta Wagerup	Technical Rules 2016; Clause 3.3.4.5 (f)	18 Feb 2019	30 Sep 2022	Voltage Control Systems Modified performance requirements for settling time reflecting realistic performance capability of the plant at present time.
Alinta Wagerup	Technical Rules 2016; Clause 3.3.3.1 (c)(1)(a) 3.3.3.1 (c)(1)(b)	18 Feb 2019	30 Sep 2022	Reactive Power Capability Modified performance requirements for supply and absorption of reactive power reflecting realistic performance capability of the plant at present time.

Exemption granted to:	Applicable clause(s)	Date granted	Date expiring	Exemption details
Hadouken Pty Ltd	Technical Rules 2016; Clause 3.3.3.3 (h)(2)	10 Apr 2019	10 Apr 2021	<p>Continuous Uninterrupted Operation</p> <p>Modified performance requirements for active power recovery after a system disturbance, reflecting realistic performance capability of the plant at present time.</p>
Multiple exemptions: Requirements for the location of installed central protection for LV connected, <1MVA embedded generation	Technical Rules 2016; Clause 3.6.10.1 (a)	5 May 2019	Ongoing	<p>Protection</p> <p><i>Provision for protection functions for LV connected, <1 MVA IEG as specified in clause 3.6.10 to be installed away from the connection point at an equivalent point, where the equivalent point in the installation must meet all of the following requirements:</i></p> <ul style="list-style-type: none"> <i>(i) The equivalent point is at a distribution board within the installation that connects the User's site load.</i> <i>(ii) The equivalent point is no more than one distribution board downstream from the site's main distribution board and connection point.</i> <i>(iii) The overcurrent protection at the equivalent point grades with the SPD and main switch(es).</i> <i>(iv) The voltage rise to the equivalent point is less than 1%. The voltage rise calculation uses the rated output of the generation without any offset from load from the equivalent point to the connection point.</i> <p>An exemption application for each qualifying connection point is still required. A register of exemption recipients is maintained.</p>

Exemption granted to:	Applicable clause(s)	Date granted	Date expiring	Exemption details
Northam Solar Farm	Technical Rules 2016; Clause 3.3.3.1(a) 3.3.3.1(c)(4)	13 May 2019	31 May 2021	<i>Reactive Power Capability</i> Modified requirements for the continuous supply of reactive power, reflecting realistic performance capability of the plant at present time.
Northam Solar Farm	Technical Rules 2016; Clause 3.3.3.3 (h)(2)	13 May 2019	31 May 2021	<i>Continuous Uninterrupted Operation</i> Modified performance requirements for active power recovery after a system disturbance, reflecting realistic performance capability of the plant at present time.
Blair Fox Pty Ltd	Technical Rules 2016; Clause 3.3.3.3 (c)(1)	13 May 2019	31 May 2021	<i>Immunity to Voltage Excursions</i> Modified performance requirements for continuous uninterrupted operation after a system disturbance causing a voltage drop at the connection point, reflecting realistic performance capability of the plant at present time.
Blair Fox Pty Ltd	Technical Rules 2016; Clause 3.3.3.3 (e)	13 May 2019	31 May 2021	<i>Immunity to High Speed Auto Reclosing</i> Modified performance requirements for continuous uninterrupted operation after a system disturbance caused by high speed auto-reclosing of transmission lines, reflecting realistic performance capability of the plant at present time.
Department of Defence – HMAS Stirling Naval Base	Technical Rules 2016; Clause 3.6.10.1 (a)	20 Jun 2019	20 Jun 2021	<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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Department of Defence – HMAS Stirling Naval Base	Technical Rules 2016; Clause 3.6.10.3 (c)	20 Jun 2019	20 Jun 2021	<i>Islanding Protection</i> Duplicated islanding protection schemes share same CT/VT secondary windings on the basis that approved failsafe protection has been implemented

Exemptions that have expired or are 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
Alinta Cogeneration Pinjarra Power Station Unit 1 & Unit 2	Technical Rules 2011; Clause 3.3.4.4	20 Jan 2014	31 Mar 2015	<i>Primary frequency control</i> 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	<i>Protection (general) and duplication of protection</i> Temporary exemption to allow for the installation of voltage transformer and NVD protection.	Retired
Mitchell Foods Pty Ltd 150kVA Solar PV Power Station	Technical Rules 2011; Clause 3.2.1(c)(3)	29 Apr 2014	31 Jul 2014	<i>Harmonics</i> 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

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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.	Retired
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	Retired
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
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

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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.	Retired
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.	Retired
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.	Under Review
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.	Under Review
NewGen Power Station ERM Neerabup	Technical Rules 2016; Clause 3.3.4.4(f)(1)	12 Sep 2016	Extended to 31 Oct 2017	Frequency control Investigation into maximum 'rate of response' capability of plant.	Retired

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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 Jun 2019	<i>Settling time</i> A temporary exemption allowing time for a compliant solution to be implemented.	Under review
Pearl Clean Energy Pty Ltd	Technical Rules 2016; Clause 3.7.3 (d)	15 Aug 2018	31 Jan 2019	<i>Relevant standards</i> A temporary exemption allowing time for testing of an inverter type/make for suitability to intended purpose.	Retired