

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	<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.
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.

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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.
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.
NewGen Power Station Kwinana	Technical Rules 2011; Clause 3.3.3.3 (d)	17 Jun 2016	30 Jun 2018	<i>Rate of change of frequency (RoCoF)</i> Amended requirements reflect realistic performance capability of plant.

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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.
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.
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.

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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 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.

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Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2	Technical Rules 2016; Clause 3.3.3.1 (c)(1)(A)	26 Sep 2017	1 Oct 2018	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	1 Oct 2018	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.
Alinta Cogeneration Wagerup Power Station Unit 1 & Unit 2	Technical Rules 2016; Clause 3.3.4.4 (f)(1)	26 Sep 2017	1 Oct 2018	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	1 Oct 2018	Settling time Modified requirement reflects realistic and proven performance capability of the plant.

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Bluwaters Power Station	Technical Rules 2016; Clause 3.3.4.4	9 Nov 2017	30 Nov 2019	<i>Frequency Control</i> 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.