

GUIDE TO COMPLETING THE GENERATOR MONITORING PLAN FORM FOR EXISTING TRANSMISSION CONNECTED GENERATING SYSTEMS

Wholesale Electricity Market Rules – Clause 1.41.2

Existing Transmission Connected Generating Systems

Clause 1.41.2 of the WEM Rules requires that a Market Participant with an Existing Transmission Connected Generating System submit a proposed Generator Monitoring Plan to AEMO by the existing agreed date of 1 August 2021 (six months after commencement of Tranche 1), unless an extension is requested.

Generator Monitoring Plan

All Generator Monitoring Plans must meet the requirements of the Template Generator Monitoring Plan detailed in the [WEM Procedure: Generator Monitoring Plans](#) and be submitted to AEMO using the form [here](#).

Many aspects of the Generator Monitoring Plan may require Generator Performance Standards to be approved by Western Power, so there are parts of the form that may not be able to be completed now. However, many parts can. The Appendix indicates which parts of the Generator Monitoring Plan Form fall into each category for most generating systems.

Note that for any Existing Transmission Connected Generating System with multiple generating units, the definition of 'generating system' used to complete the form will need to be consistent with that used by AEMO and Western Power. As such, we suggest completing the 'Introduction' section of the form as soon as possible, and discuss with AEMO before proceeding to complete the other sections. AEMO will contact Participants that it considers have this type of generating system. However, if you think this applies to you, please contact AEMO at WEM.GPS@aemo.com.au.

Generator Performance Standards

For further information and contact points on Generator Performance Standards submission and negotiation, please see the [Manuals, guides & standards - Western Power](#) section of the Western Power website and scroll down to the Generator Performance Standards section.

APPENDIX A. GENERATOR MONITORING PLAN FORM CATEGORISATION

SECTION	DESCRIPTION	DETAILS	CAN BE COMPLETED NOW	MAY REQUIRE ENGINEERING ASSESSMENT	MAY REQUIRE APPROVED GENERATOR PERFORMANCE STANDARDS
1	Introduction		N/A	N/A	N/A
1.1.	Facility		Y	N	N
1.2.	Roles and responsibilities/Site test coordination		Y	N	N
1.3.	Non-compliance		Y	N	N
1.4.	Requests for information		Y	N	N
1.5.	Commencement date		Y	N	N
1.6.	Proposed timeframe for evidence of compliance		Y	N	N
1.7.	Non-compliance reporting		Y	N	N
1.8.	Review of Generator Monitoring Plan		Y	N	N
1.9.	Glossary		Y	N	N
2	Active Power Capability		N/A	N/A	N/A
2.1.	Testing and monitoring		Y	Y	N
2.2.	Recording or measuring device		Y	Y	N
2.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
2.4.	Frequency of testing		Y	Y	N
2.5.	Risks and mitigation		Y	Y	N
3	Reactive Power Capability		N/A	N/A	N/A
3.1.	Testing and monitoring		Y	Y	N
3.2.	Recording or measuring device		Y	Y	N
3.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
3.4.	Frequency of testing		Y	Y	N
3.5.	Risks and mitigation		Y	Y	N
4	Voltage and Reactive Power Control		N/A	N/A	N/A
4.1.	Testing and monitoring		Y	Y	N
4.2.	Recording or measuring device		Y	Y	N

SECTION	DESCRIPTION	DETAILS	CAN BE COMPLETED NOW	MAY REQUIRE ENGINEERING ASSESSMENT	MAY REQUIRE APPROVED GENERATOR PERFORMANCE STANDARDS
4.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
4.4.	Frequency of testing		Y	Y	N
4.5.	Risks and mitigation		Y	Y	N
5	Active Power Control		N/A	N/A	N/A
5.1.	Testing and monitoring		Y	Y	N
5.2.	Recording or measuring device		Y	Y	N
5.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
5.4.	Frequency of testing		Y	Y	N
5.5.	Risks and mitigation		Y	Y	N
6	Inertia and Frequency Control		N/A	N/A	N/A
6.1.	Testing and monitoring		Y	Y	N
6.2.	Recording or measuring device		Y	Y	N
6.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
6.4.	Frequency of testing		Y	Y	N
6.5.	Risks and mitigation		Y	Y	N
7	Disturbance Ride Through for a Frequency Disturbance		N/A	N/A	N/A
7.1.	Testing and monitoring		Y	Y	N
7.2.	Recording or measuring device		Y	Y	N
7.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
7.4.	Frequency of testing		Y	Y	N
7.5.	Risks and mitigation		Y	Y	N
8	Disturbance Ride Through for a Voltage Disturbance		N/A	N/A	N/A
8.1.	Testing and monitoring		Y	Y	N

SECTION	DESCRIPTION	DETAILS	CAN BE COMPLETED NOW	MAY REQUIRE ENGINEERING ASSESSMENT	MAY REQUIRE APPROVED GENERATOR PERFORMANCE STANDARDS
8.2.	Recording or measuring device		Y	Y	N
8.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
8.4.	Frequency of testing		Y	Y	N
8.5.	Risks and mitigation		Y	Y	N
9	Disturbance Ride Through for Multiple Disturbances		N/A	N/A	N/A
9.1.	Testing and monitoring		N	N	Y
9.2.	Recording or measuring device		N	N	Y
9.3.	Compliance verification		N	N	Y
9.4.	Frequency of testing		N	N	Y
9.5.	Risks and mitigation		N	N	Y
10	Disturbance Ride Through for Partial Load Rejection		N/A	N/A	N/A
10.1.	Testing and monitoring		Y	Y	N
10.2.	Recording or measuring device		Y	Y	N
10.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
10.4.	Frequency of testing		Y	Y	N
10.5.	Risks and mitigation		Y	Y	N
11	Disturbance Ride Through for Quality of Supply		N/A	N/A	N/A
11.1.	Testing and monitoring		Y	Y	N
11.2.	Recording or measuring device		Y	Y	N
11.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
11.4.	Frequency of testing		Y	Y	N
11.5.	Risks and mitigation		Y	Y	N
12	Quality of Electricity Generated		N/A	N/A	N/A

SECTION	DESCRIPTION	DETAILS	CAN BE COMPLETED NOW	MAY REQUIRE ENGINEERING ASSESSMENT	MAY REQUIRE APPROVED GENERATOR PERFORMANCE STANDARDS
12.1.	Testing and monitoring		Y	Y	N
12.2.	Recording or measuring device		Y	Y	N
12.3.	Compliance verification	Verification of compliance column	Y	Y	N
	Compliance verification	All other columns	N	Y	Y
12.4.	Frequency of testing		Y	Y	N
12.5.	Risks and mitigation		Y	Y	N
13	Generation Protection Systems		N/A	N/A	N/A
13.1.	Testing and monitoring		Y	Y	N
13.2.	Recording or measuring device		Y	Y	N
13.3.	Compliance verification		Y	Y	N
13.4.	Frequency of testing		Y	Y	N
13.5.	Risks and mitigation		Y	Y	N
14	Remote Monitoring Requirements		N/A	N/A	N/A
14.1.	Testing and monitoring		Y	Y	N
14.2.	Recording or measuring device		Y	Y	N
14.3.	Compliance verification		Y	Y	N
14.4.	Frequency of testing		Y	Y	N
14.5.	Risks and mitigation		Y	Y	N
15	Remote Control Requirements		N/A	N/A	N/A
15.1.	Testing and monitoring		Y	Y	N
15.2.	Recording or measuring device		Y	Y	N
15.3.	Compliance verification		Y	Y	N
15.4.	Frequency of testing		Y	Y	N
15.5.	Risks and mitigation		Y	Y	N
16	Communication Equipment Requirements		N/A	N/A	N/A
16.1.	Testing and monitoring		Y	Y	N
16.2.	Recording or measuring device		Y	Y	N
16.3.	Compliance verification		Y	Y	N
16.4.	Frequency of testing		Y	Y	N

SECTION	DESCRIPTION	DETAILS	CAN BE COMPLETED NOW	MAY REQUIRE ENGINEERING ASSESSMENT	MAY REQUIRE APPROVED GENERATOR PERFORMANCE STANDARDS
16.5.	Risks and mitigation		Y	Y	N
17	Generation System Model		N/A	N/A	N/A
17.1.	Testing and monitoring		If model is up to date	If model is up to date	If the existing model is outdated or not representative for all GPS clauses
17.2.	Recording or measuring device		If model is up to date	If model is up to date	If the existing model is outdated or not representative for all GPS clauses
17.3.	Compliance verification		If model is up to date	If model is up to date	If the existing model is outdated or not representative for all GPS clauses
17.4.	Frequency of testing		If model is up to date	If model is up to date	If the existing model is outdated or not representative for all GPS clauses
17.5.	Risks and mitigation		If model is up to date	If model is up to date	If the existing model is outdated or not representative for all GPS clauses