**Update report Stakeholder feedback template:**

**AEMO Review of technical requirements for connection**

Stakeholders making a submission on the recommendations set out in the AEMO draft report may use the below template to provide feedback. Please consider the confidentiality disclaimer at the end of this document.

**Stakeholder: Organisation name**

**Schedule 5.2 Conditions for Connection of Generators**

|  |  |
| --- | --- |
| NER Schedule 5.2 issue | Schedule 5.2 (Generators) – feedback on revised recommendations and relevant draft NER amendments |
| NER S5.2.1 – Outline of requirements |
| Application of Schedule 5.2 based on plant type instead of registration category and extension to synchronous condensers |  |
| NER S5.2.5.1 – Reactive power capability  |
| Voltage range for full reactive power requirement  |  |
| Treatment of reactive power capability considering temperature derating  |  |
| Compensation of reactive power when units are out of service |  |
| S5.2.5.7, S5.2.5.8, S5.2.5.13 |
| Simplifying small connections |  |
| NER S5.2.5.2 – Quality of electricity generated |
| Reference to plant standard |  |
| NER S5.2.5.4 – Generating system response to voltage disturbances |
| Overvoltage requirements for medium voltage and lower connections |  |
| Requirements for overvoltages above 130% |  |
| Clarification of continuous uninterrupted operation (CUO) in the range 90% to 110% of normal voltage |  |
| NER S5.2.5.5 – Generating system response to disturbances following contingency events |
| Definition of end of a disturbance for multiple fault ride through |  |
| Form of multiple fault ride through clause |  |
| Number of faults with 200 ms between them |  |
| Reduction of fault level below minimum level for which the plant has been tuned |  |
| Active power recovery after a fault |  |
| Rise time and settling time for reactive current injection  |  |
| Commencement of reactive current injection  |  |
| Clarity on reactive current injection volume and location and consideration of unbalanced voltages |  |
| Metallic conducting path |  |
| Reclassified contingency events |  |
| NER S5.2.5.7 – Partial load rejection |
| Application of minimum generation to energy storage systems |  |
| Clarification of meaning of CUO for NER S5.2.5.7 |  |
| NER S5.2.5.8 – Protection of generating systems from power system disturbances |
| Emergency over-frequency response  |  |
| NER S5.2.5.10 – Protection to trip plant for unstable operation |
| Requirements for stability protection on asynchronous generating systems |  |
| NER S5.2.5.13 – Voltage and reactive power control |
| Voltage control at unit level and slow setpoint change |  |
| Realignment of performance requirements to optimise power system performance over expected fault level (system impedance) range – Voltage control |  |
| Materiality threshold on settling time error band and voltage settling time for reactive power and power factor setpoints |  |
| Clarification of when multiple modes of operation are required |  |
| Impact of a generating system on power system oscillation modes |  |
| Definition – continuous uninterrupted operation |
| Recognition of frequency response mode, inertial response and active power response to an angle jump |  |

**Schedule 5.3a Conditions for connection of MNSPs**

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| Issue | Schedule 5.3a (HVDC links) – feedback on revised recommendations and relevant draft NER amendments |
| NER S5.3a.1a Introduction to the schedule |
| Alignment of schedule with plant-type rather than registration category |  |
| NER S5.3a.8 – Reactive power capability |
| Reactive power |  |
| NER S5.3a.13 – Market network service response to disturbances in the power system |
| Voltage disturbances |  |
| Frequency disturbances |  |
| Fault ride through requirements |  |
| NER S5.3a.4 – Monitoring and control requirements |
| Remote monitoring and protection against instability |  |
| New standards |
| Voltage control |  |
| Active power dispatch |  |

**Multiple Schedules**

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| --- | --- |
| Issue | Multiple schedules – feedback on revised recommendations and relevant draft NER amendments |
| NER Multiple clauses |
| References to superseded standards  |  |

**NER structural amendments**

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| --- | --- |
| Issue | NER structural amendments – feedback on revised recommendations and relevant draft NER amendments |
| NER structural amendments |
| Drafting principles |  |
| Proposed approach |  |

**Consequential amendments**

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| --- | --- |
| Issue | Consequential amendments – feedback on revised recommendations and relevant draft NER amendments |
| Definitions |
| Definitions changes |  |
| Technical changes |
| Incorporating synchronous condensers |  |
| Additions to information provision |  |
| Relevant system – in relation to small plants exempt from some requirements |  |
| S5.2.5.8 Over-frequency emergency generation reduction requirements |  |
| S5.2.5.8 Protection settings and relationship to ride through clauses |  |
| S5.2.5.8 Conditions for which the plant may trip and recording of conditions |  |
| S5.2.5.8 Network Service Provider liability |  |
| S5.2.5.11 Minimum operating level |  |
| S5.2.5.11 Response direction for bidirectional units taking power from the system |  |
| Drafting changes |
| Drafting changes |  |

**Confidentiality disclaimer**

Under clause 5.2.6A(d)(2), AEMO is required to publish all submissions received about this Review on its website. Please identify any part of your submission that is confidential, which you do not wish to be published. Please note that if material identified as confidential cannot be shared and validated with other interested persons, then it may be accorded less weight in AEMO’s decision-making process than published material. AEMO prefers that submissions be forwarded in electronic format.