National Electricity Rules Clause Task/ Expectations Have you identified and reviewed all of the factors (e.g., market and plant conditions) that affect the availability of your individual plant (including those set out in AEMO's NEW Clause 3.7B(b) - Unconstrained intermittent generation forecast lause 3.7B(b) requires an SSG to submit to AEMO the plant availability for each Semi-Scheduled Generating unit as Operational Forecasting and Dispatch Handbook)? oon as the SSG is aware that the plant availability is at least 6 MW below or above the nameplate ratina of the Do you have systems and personnel in place to actively monitor these factors to ensure that any changes in plant availability are identified and notified to AEMO in a timely manner? ınit. The SSG must also notify AEMO of changes to submitted plant availability until the plant availability is no For example, do you actively monitor actual ambient temperatures and energy source availability to compare them with the forecasts upon which the relevant plant availability were onger at least 6 MW below or above the nameplate rating. ☐ Have you considered these factors when submitting anticipated availability over the forward time horizon? Do you promptly update anticipated availability as new information or to light or as conditions change? ☐ Have you set up manual monitoring practices, as well as automated systems, to actively monitor influential factors (including those effecting energy source availability such as advers ambient conditions) and alert the relevant staff to any changes? Do you have systems, processes and personnel in place to liaise with relevant TNSPs to ensure that network outages and runbacks have been communicated to, and managed by, AEMO through the central dispatch process? Do you have systems, processes and personnel in place to liaise with relevant DNSPs to ensure that network outages and runbacks have been communicated to AEMO and that outages are actively managed in your availability information unless instructed otherwise by AEMO? Do you have processes and personnel in place to ensure effective communication between plant operators and trading staff to verify that availability is accurately reflected in automated submissions, updating any errors when identified? ☐ Are you aware of the way that your bid energy Max Avail can be used to manage your commercial availability in the dispatch timeframe? The bid energy Max Avail can be used to nanage commercial availability in the dispatch timeframe, noting this value will also limit the availability of the generating unit in 5MPD, PD and PASA processes (DS, PD and Short-Term (ST)) if less than the UIGE Clauses 3.8.2(a) and 3.8.6(g) – Participation in central dispatch and generating unit offers for dispatch □ Do you have systems and personnel in place to monitor operational and commercial factors that affect your offers, bids and rebids? Clause 3.8.2(a) and 3.8.6(g) require SSGs to submit dispatch offers containing 10 price bands and must specify for ☐ Are your bids, offers and rebids made with genuine intention on a reasonable basis? Do you have systems and personnel in place to ensure the bids, offers and rebids submitted each trading interval and trading day an incremental MW amount for each price band specified in the dispatch offer; and □ Do you have systems and personnel in place to actively monitor the accuracy of offers, bids and rebids and to update with AEMO if they are no longer accurate? an up ramp rate and down ramp rate. 🗖 Are you familiar with the AER's Rebidding and Technical Parameters Guideline? Do you have processes and personnel in place to ensure technical parameters are bid in accordance Clause 3.8.8(b) – Validation of dispatch bids and offers □ Do you have systems and personnel in place to maintain relevant records such as rebid reasons and contemporaneous records in accordance with the relevant NER requirements? ☐ Where you have automated systems in place to actively monitor and submit offers, bids and rebids, are there relevant personnel available to actively monitor and act on any changes Clause 3.8.8(b) states that it is the responsibility of the SSG to check that the data contained in its generation dispatch offer or market ancillary service offer, as received and to be used by AEMO in the central dispatch process, r errors identified in these systems? ☐ Where you have automated systems in place, have you rostered technical and operational staff in a 24/7/365 fashion to maintain adequate manual oversight to ensure that the is correct. generating unit or load can comply with the latest market offer at all times? Do you have relevant personnel available to actively monitor generator output, offers and correct input of Clauses 3.8.22(c) and 3.8.22(ca) – Rebidding bid/rebid reasons and plant availability information? If utilising automated bidding systems, do you have systems, processes and personnel in place to ensure that all offers and rebids Clause 3.8.22(c) requires every rebid to be accompanied by a brief, verifiable and specific reason to AEMO, as well as comply with overarching obligations around the provision of high quality and accurate information to AEMO and the market. the time when the generator became aware of the reason for the rebid. Uhere you provide FCAS, have you reviewed your relevant FCAS obligations? The AER encourages participants to familiarise themselves with the AER's Contingency FCAS comp pulletin which outlines our expectations regarding compliance with a number of critical obligations. Clause 3.8.22(ca) provides that an SSG must make a contemporaneous record of a rebid made in the late rebidding ☐ Where you have contracted a third-party contractor to undertake operational functions, have you ensured that your agreement with the third-party supports compliance with Clauses 3.8.22A(a), 3.8.22A(b) and 3.8.22A(d) – Offers, bids and rebids must not be false or misleading lauses 3.8.22A(a) requires that participants must not make a dispatch offer, dispatch bid or rebid that is false, isleading or likely to mislead. 3.8.22A(b) provides that an offer/bid or rebid is taken to be false or misleading if the party making it does not have enuine intention to honour, or does not have a reasonable basis for making, the representations contained withir the offer. Clauses 3.8.19(a1), 3.8.19(a2) and 3.8.19(b) – Dispatch inflexibilities 🗆 Are you familiar with the AER's Rebidding and Technical Parameters Guideline? Do you have processes and personnel in place to ensure technical parameters are bid in accordanc clauses 3.8.19(a1) and 3.8.19(a2) set out the conditions under which an SSG must advise AEMO that a SSG unit is vith the Rules? inflexible and states that this must be due to abnormal plant conditions or other abnormal operating requi Do you have systems and processes in place to review your decision to bid inflexible and to ensure that a brief, verifiable and specific reason for the inflexibility is provided to AEMO? Do you have systems and processes in place to promptly update AEMO once the abnormal conditions have ceased? Do you have systems and processes in place to maintain adequate records in relation to inflexible bids to substantiate the reasons provided to AEMO, if required by the AER? Clause 3.8.19(b) states that when bidding inflexible, an SSG must provide AEMO with a brief, verifiable and specific reason for the inflexibility and must provide to the AER upon request for information to substantiate and verify the eason for the inflexibility. Clause 3.8.21(f) – On-line dispatch instructions ☐ Have you set up facilities to receive dispatch instructions as required under the NER? Are they robust such that there is a facility in place at all times? □ Do you have relevant operational personnel available at all times (24/7/365) to receive and immediately act upon dispatch instructions? Clause 3.8.21(f) requires SSGs to ensure they have facilities to receive dispatch instructions Do you have systems and personnel in place to continually monitor current output and plant capabilities and compare these to the relevant dispatch targets from AEMO? Clauses 4.9.2(a) and 4.9.2(d)— Instructions to Scheduled Generators and Semi-Scheduled Generators ☐ Where the current capabilities are likely to deviate from the dispatch target or, for a semi-dispatch interval, exceed the semi dispatch cap, do you have systems and personnel in place Clause 4.9.2(a) gives AEMO the power to, at any time, give an instruction to the Generator in relation to any of its to ensure that AEMO is informed through rebids or updated plant availability and, if appropriate, also by contacting AEMO's control room directly? nerating units (a dispatch instruction), in accordance with NER 4.9.5(a). ☐ Where you provide FCAS services, do you have systems and processes in place to ensure you are able to deliver the required services? ☐ Where you have contracted a third-party contractor to undertake operational functions, have you ensured that your agreement with the third-party supports compliance with Clause 4.9.2(d) requires SSGs to ensure that operational personnel for each generating system are available at all relevant the NER obligations? times to receive immediately act upon dispatch instructions issued by AEMO. These personnel must be capable of nmediately implementing AEMO's instructions or responding to urgent requests, such as to: switch off, or re-route, generator, call equipment into service, take equipment out of service, commence operation or maintain, increase r reduce active or reactive power output, shut down or vary operation, change the generating unit's voltage control system set point to give a nominated voltage, or do any other act or thing necessary to be done to maintain power system security or for reasons for public safety. Clauses 4.9.8(a), 4.9.8(a1), 4.9.8(e) – General responsibilities of Registered Participants lauses 4.9.8(a), 4.9.8(a1), 4.9.8(e) contain the overarching obligations requiring registered participants to comply with AEMO dispatch instructions, including the requirement for SSGs to ensure that each of its Semi-Scheduled Generating units is at all times able to comply with its latest dispatch offer. This is with the exception of rircumstances where to do so would be a hazard to public safety, materially risk damaging equipment or when roviding primary frequency responses. Clause 3.8.23(b) — Failure to conform to dispatch instructions excluding wholesale demand response units Clause 3.8.23(b) provides that where the SSG fails to respond to a dispatch instruction within a tolerable time and Do you have systems and processes in place to investigate and keep records for instances of non-conformance or non-compliance with dispatch instructions and the semi-dispatch ccuracy, it will be declared by AEMO as non-conforming and notified as such by email. ☐ Have you reviewed the AER's Compliance Bulletin No. 1 to understand the difference between AEMO's non-conformance process and non-compliance with dispatch instructions? Clause 4.11.1 and S5.2.6.1 – Remote control and monitoring devices Do you have systems and processes in place to review, test and rectify SCADA issues within the reliability requirements outlined in the standards and protocols developed by AEMO? Clause 4.11.1 requires SSGs to have remote monitoring $\,$ equipment to transmit to, and receive from, AEMO's contro These documents include AEMO's Standard for Power System Data Communications and Communication System Failure Guidelines. ntres in real time as per Schedule 5.2.6.1 of the NEF \square Are you familiar with all relevant AEMO power system operating procedure? Do you have systems and processes in place to regularly review and ensure that your operations meet the requirements of the current power system operating procedure? It further requires remote control and monitoring devices to be installed and maintained in accordance with the andards and protocols determined and advised by AEMO Clause 4.10.2(b) – Power system operating procedures Clause 4.10.2(b) provides that a Registered Participant must observe the requirements of the relevant power system operatina procedures. Specifically, AEMO's power system operating procedures (SO OP 3705) sets out linear ramping requirements for ☐ Do you have systems and processes in place to maintain relevant voice/data communication facilities? Clause 4.11.3 – Power system voice/data operational communication facilities Clause 4.11.3 requires SSGs to ensure they maintain relevant voice/data communication facilities and current ☐ Have you provided to AEMO contact details for your trading team for bidding/dispatch purposes, as well as contact details for voltage control and system security personnel? ontact details so the AEMO Control Room can contact the generator's operational personnel at all times. Do you have systems and processes in place to regularly review the contact details provided to AEMO and update these where these are no longer the most appropriate contacts? ☐ Where you have contracted a third-party contractor to undertake operational functions, have you ensured that your agreement with the third-party supports compliance with Clauses 4.8.1 and 4.8.2(a) - Registered Participants' advice and protection or control system abnormality Do you have systems and personnel in place to monitor and promptly advise AEMO of any circumstances that could be expected to adversely affect the secure operation of the power system? Have you identified key factors that pose a risk to your equipment? Do you gather relevant information to promptly identify risks? Clause 4.8.1 requires SSGs to monitor and promptly advise AEMO of any circumstance which could be expected to dversely affect the secure operation of the power system or any equipment owned or under the control of the 🗆 Do you have systems and personnel in place to monitor and promptly advise AEMO of any relevant protection system or control system that is defective or unavailable for service? Registered Participant or a Network Service Provider. Further, clause 4.8.2(a) requires SSGs to monitor and promptly advise AEMO of any relevant protection system or ntrol system that is defective or unavailable for service Clause 4.15 – Compliance with Performance Standards 🗆 Do you have systems and processes in place to regularly review and update your compliance programs in accordance with any changes to the AEMC Reliability Panel's template fo Clause 4.15 requires SSGs to implement and maintain effective compliance programs for their plant and to meet generator compliance programs? Has there been a breach or likely breach of a performance standard, requiring an immediate clause 4.15(f) Notice of Non-compliance with Registered Performance Standards to elevant requirements under the Generator Performance Standard. Clause 5.3.9– Procedure to be followed by a Generator proposing to alter a generating system ☐ Are your ongoing generator performance standards compliance validation programs fully effective and up to date, notably during times of impending high demand or other adverse Clause 5.3.9 requires, where the SSG's GPS has been previously accepted by AEMO and NSPs, it must submit to AEMO and relevant NSPs information regarding the proposed alterations. This is with exceptions to SSGs making ☐ Are compliance programs and associated documentation up to date and prepared according to the current Reliability Panel template? modifications to comply with the Primary Frequency Response Requirements. ☐ Have you reviewed your testing requirements and, where possible, prioritised testing ahead of peak periods? Do you evaluate the effectiveness of your testing processes and procedures on an ongoing basis and update them when potential improvements are identified? ☐ Are you familiar with all settings that impact your plant's ability to comply with its generator performance standards? Have these been notified to AEMO? Do you have systems and protocols in place to ensure that plant changes are only made in line with the processes set out in NER clause 5.3.9?

Relevant supporting documents

AFR documents

ational Electricity Market Compliance Bulletin and Checklist

pliance Bulletin No 1 - Compliance with dispatch instructions, offers and bids npliance Bulletin No 3 - Monitoring and enforcing compliance of electricity offer, bid and rebid information bidding and Technical Parameters Guideline

ntingency FCAS Compliance Bulletin erator Performance Standards information **AEMO documents** Pre-Dispatch (SO OP 3704)

Dispatch (SO OP 3705) **Spot Market Operations Timetable** Australian Wind Energy Forecasting System (AWEFS) Guide to Data Requirements for AWEFS and ASEFS NEM Operational Forecasting and Dispatch Handbook for **Guide to Intermittent Generation**

Generator Performance Standards information

Power System Data Communication Standard Communication System Failure Guidelines