

# Addendum to SRAS ITT issued 15 December 2020

ADDENDUM NUMBER	1
DATE	14 JANUARY 2021

AEMO provides the following additional information and clarification in response to general enquiries from Tender Recipients on the Tender form and pro-forma SRAS agreement. Responses to questions specific to a prospective SRAS source will be provided directly to the relevant Recipient.

## Tender form

### 1. SRAS Equipment Major components (Schedule 2, Section 1)

Clarification was requested on what would be considered 'Major Components' of SRAS Equipment in Schedule 2.

SRAS Equipment for typical Black Start Services incorporates one or more identified generating units and other facilities proposed to be used to provide the SRAS. The nominated Delivery Point is generally expected to be at the interface of the connection assets and the shared transmission network. Any connection assets operated by the NSP within between your facility and the nominated Delivery Point should be listed separately as SRAS Network Components.

Other than generating units, major components can also include equipment that is needed or important to provide the technical capabilities as specified in Section 3.3 of the SRAS Guideline<sup>1</sup>. This should also include:

- Auxiliary services involved during system restoration (e.g. batteries/UPS/diesel gensets)
- Protective equipment that support those capabilities (e.g. CBs, isolators etc.)
- Transformers
- Any other equipment that is essential for delivering SRAS and meeting the capabilities in Section 3.3 of the SRAS Guideline.

### 2. Expected Reliability example – Appendix A

Appendix A containing examples of configuration and reliability calculations is contained on page 19 of the ITT document. Appendix A is referred to in Schedule 2, Section 3(a).

### 3. Period for planned maintenance (Schedule 2, Section 3(b))

The starting period for planned maintenance details (for the next 24 months) should start from 1 July 2021. To clarify AEMO is seeking a planned maintenance schedule for 24 months covering a period from when a contract would commence.

If your current maintenance schedule does not extend for 24 months from 1 July 2021, please provide us with all relevant maintenance details available and the date when you expect to next update your maintenance schedule.

### 4. Power System Design and Setting Data Sheets (Schedule 2, Section 3(c))

Clarification was requested on what elements need to be completed in the *Power System Design Data Sheets and Power System Setting Data Sheet (Data Sheets)*.

<sup>1</sup> [https://aemo.com.au/-/media/files/stakeholder\\_consultation/consultations/nem-consultations/2020/sras-guideline/final-stage/sras-guideline-2020.pdf?la=en](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2020/sras-guideline/final-stage/sras-guideline-2020.pdf?la=en)

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Prospective SRAS providers should utilise the latest form of the Data Sheets, providing the most up to date information in all fields and sheets of the Data Sheets. This is required to provide assurance that AEMO has complete and current information relevant to the technical assessment of each prospective SRAS provider and what to procure to achieve the system restart standard (SRS).

AEMO held an information and refresher session on 13 January 2021 to provide background and guidance on how to fill out the Data Sheets. The presentation will be uploaded to AEMO's website within a few days of the session.

## SRAS Agreement

### 5. Changes to pro-forma agreement since last procurement

AEMO has been asked to identify changes to the SRAS Agreement pro-forma from previous procurements. AEMO will upload to the SRAS ITT page a change-marked version showing the material changes from the pro-forma issued for the 2018 SRAS ITT.

Prospective SRAS providers wanting to understand the differences between their current or previous SRAS contracts are encouraged to undertake their own direct comparisons, as those contracts may not have exactly the same terms as the 2018 pro-forma.

## System restart standard

### 6. Additional requirement in NSW and QLD

AEMO received a question about the requirements under Section 5 of the system restart standard (SRS)<sup>2</sup> specifically for NSW (but similar considerations are likely to apply to QLD based on the Reliability Panel's draft determination).

The question was specifically directed at whether "500MW of generation capacity" means that within 4 hours there should be 500MW of generation output, or that units with 500MW of capacity can be synchronised within 4 hours.

This SRS requirement states that the procured SRAS should be sufficient to independently restart at least 500 MW of generation capacity north of Sydney in 4 hours. Like the overall SRS quantitative requirements for NSW and all other electrical sub-networks, AEMO interprets this to mean that procured SRAS should be capable of restarting an aggregate generation (supply) *capacity* of 500 MW north of Sydney within 4 hours, not necessarily of achieving that output. This is consistent with the Rules description of black start capability for SRAS – that is to energise the auxiliaries of other power stations, not necessarily to generate the MW level required by the standard. In practice, AEMO currently considers restart time for the purposes of the standard as synonymous with the expected time to synchronise enough units whose capacity in aggregate is enough to meet the MW standard.

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<sup>2</sup> The current SRS can be found here: <https://www.aemc.gov.au/sites/default/files/content/a1041e28-7d15-4e62-8d7d-1180221b6d44/REL0057-Review-of-the-System-Restart-Standard-Final-Standard.pdf>. The draft version of the updated SRS for QLD can be found here: <https://www.aemc.gov.au/market-reviews-advice/review-system-restart-standard-2020>