



16 June 2020

Attention: Georgina Lawrence - Manager, Licensing and Compliance
Essential Services Commission of SA
GPO Box 2605
Adelaide 5000 SA

Dear Georgina,

Re: Variation to Existing Quarantine Power Station Generation Licence

I refer to the existing Generation License for Origin Energy Electricity Limited (Origin), issued on 27th October 1999, as amended 30 July 2008 and subsequently on 12 December 2018 for Quarantine Power Station.

Quarantine Power Station Repower 3 Project

Origin Energy (**Origin**) has commenced a series of re-power projects for the Quarantine Power Station. The projects consist of a program of works that involves the replacement of the turbines of Units 1 to 4 over a period of four years. The program of works has started with the replacement of Unit 1 now complete. The second of these gas turbines scheduled to be re-powered is "Unit 3" (**QPS3**) which is scheduled to commence in Q3 2020.

The re-power of QPS3 involves the replacement of the existing turbine with a GE LM2500. The primary benefit of the LM2500 is its fast start feature, which will enable the new generation unit to reach full capacity within five minutes of starting. The existing QPS3 unit has a registered capacity of 20.4 MW. The new gas turbine output will have a moderate increase of output through increased efficiency and reduced emissions. The associated revised output of the new turbine will be 29.5 MW. Origin aims to have the new LM2500 commissioned and generating by 7 January 2021.

Origin has engaged with ElectraNet and technical consultant DlgSILENT, to amend the Transmission Connection Agreement and Generator Performance Standards (GPS). It is expected these items will be completed in Q3 2020.

Request for Variation

Origin seeks for ESCOSA to process a variation of the existing license. Further, Origin confirms that it has engaged Clutch Consulting to support the license variation process and authorises ESCOSA to communicate directly with Clutch Consulting on this matter as required.

We look forward to your response.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'MC', with a long horizontal stroke extending to the right.

Michael Craig
Transmission and Gas Connections Manager

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