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| **SONI Grid Code**  **Modification Proposal Form**  Email to gridcode@soni.ltd.uk | | | Z:\Ref 0015 Campbell_MT\NEAR TIME OPERATIONS\Templates\SONI_2015_Colour.png | | |
| **Title of Modification Proposal:**  Modify maximum continuous rating requirement in SONI Grid Code  **SPID (SONI Proposal ID) 01\_2020** | | | | | |
| **Date:** | | 09/10/2020 | | | |
| **Company Name:** | | EP Kilroot Limited | | | |
| **Applicant Name:** | | Stephen Brownlees | | | |
| **Email Address:** | | Stephen.brownlees@epuki.co.uk | | **Tel:** | 02893381162 |
| **Grid Code Version:** | | SONI Grid Code version – 14th **February 2020**  [**http://www.soni.ltd.uk/media/documents/SONI-GridCode-Version-Feb2020.pdf**](http://www.soni.ltd.uk/media/documents/SONI-GridCode-Version-Feb2020.pdf) | | | |
| **Grid Code Section(s) Impacted by Modification Proposal:** | | PART I TECHNICAL CRITERIA FOR GENERATING UNITS CONNECTED TO THE TRANSMISSION SYSTEM OTHER THAN THOSE COMPRISED WITHIN PPMS  Connection Code Schedule 1: CCS1. 1.3.8  CC Page 151  PART II TECHNICAL CRITERIA FOR GENERATING UNITS CONNECTED TO THE DISTRIBUTION SYSTEM OTHER THAN THOSE COMPRISED WITHIN PPMS  Connection Code Schedule 1: CCS1.2.3.3  CC Page 158 | | | |
| **Modification Proposal Justification:** | | The heavy-duty gas turbines on the market today cannot maintain compliance with current emissions and efficiency legislation whilst synchronised and generating at 80MW. A limit of 40% of maximum continuous rating is in line with current gas turbine technology.  Economic incentives for lowering minimum generation exist through DS3 products and dispatch markets, and these are sufficient to encourage generators to continue to investigate ways of exceeding grid code requirements as technology and experience develop.  With the recent retirement and further planned retirement of large steam turbines in Northern Ireland as well as the advent of heavy duty gas turbines, the minimum generation limit of 80MW has become less applicable to large generating units, the majority of which currently cannot maintain stable generation at or below 80MW. | | | |
| **Red-line Version of Impacted Grid Code Section(s) - show proposed changes to text:**  *Deleted text in ~~strike-through red font~~ and new text highlighted in blue font*  CC.S1.1.3.8 A **Generating Unit** must be capable of remaining **Synchronised** to the **NI System** at an **Output** which is ~~no greater than the lower of 80 MW or~~ 40% of its maximum continuous rating.  CC.S1.2.3.3 A **Generating Unit** must be capable of remaining **Synchronised** to the **NI System** at an **Output** which is ~~no greater than the lower of 80 MW or~~ 40% of its maximum continuous rating | | | | | |
| **Green-line Version of Impacted Grid Code Section(s) - show proposed final text:**  CC.S1.1.3.8 A **Generating Unit** must be capable of remaining **Synchronised** to the **NI System** at an **Output** which is 40% of its maximum continuous rating.  CC.S1.2.3.3 A **Generating Unit** must be capable of remaining **Synchronised** to the **NI System** at an **Output** which is 40% of its maximum continuous rating. | | | | |
| **Defined Terms (Bold):** | | None proposed for modification | | | |
| **Implication of Not Implementing the Modification:** | | Requirement for new generation to continue to seek derogations. | | | |
| **SONI Reviewer** | |  | | | |
| **SONI Assessment** | |  | | | |
| **SONI Contact** | | SONI Ltd., Castlereagh House, 12 Manse Road, Belfast, BT6 9RT  Phone: +44 28 90 794336  Email: [gridcode@soni.ltd.uk](mailto:gridcode@soni.ltd.uk) | | | |