

ISG216/02 – APPLICATION FOR A NON-STANDARD PRIMARY BM UNIT FOR MGT TEESSIDE

MEETING NAME ISG

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Purpose of paper For Decision

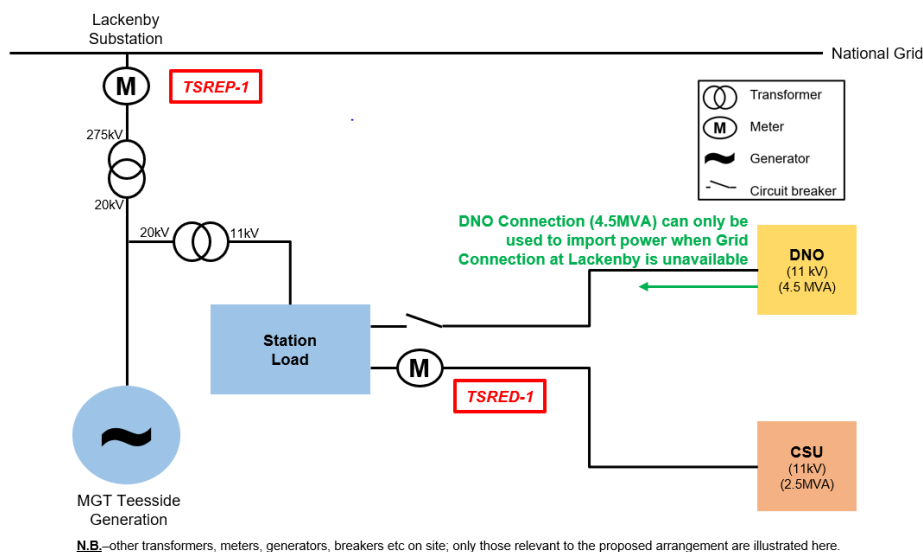
Classification Public

Summary The Central Registration Agent (CRA) considers that there is reasonable doubt that the Plant and Apparatus associated with the MGT Teesside Primary BM Units fall into a category listed in BSC Section K3.1.4. The CRA is therefore referring the establishment of the Primary BM Units to the ISG. We invite the ISG to approve the non-standard Primary BM Units for MGT Teesside.

1. Background

- 1.1 In July 2018, MGT Teesside (Party ID: TEESREP) registered a Primary BM Unit, T_TSREP-1 for their new 285MW biomass Power Station connected to National Grid Electricity Transmission's (NGET's) Lackenby 275kV substation.
- 1.2 MGT Teesside are currently registering a Primary BM Unit, T_TSRED-1 for a continuous ship unloader (CSU) which will be connected to the Lackenby substation via the Power Station. The CSU is needed to unload the biomass that will be delivered by ship for use by the Power Station. The CSU is expected to operate for eight days a month, 11 months of the year and needs to be available for use whenever a ship docks.
- 1.3 Normally, the electrical power for the CSU would be provided by the Power Station. In the event that the Power Station is not running, the power for the CSU would be imported from the Transmission System through the Power Station.
- 1.4 In the event that the connection to the Transmission System at the Lackenby substation is unavailable, MGT Teesside have a backup connection to the Licensed Distribution System Operator's (Northern Powergrid's) Distribution System at 11kV (as shown in the diagram below). This is to ensure power can be provided to the CSU when required. The Meter at the Distribution System connection will be registered in the Supplier Volume Allocation (SVA) market. If used, the Distribution System connection would feed the 11kV busbar to which the CSU and Power Station auxiliaries connect. Mechanical and electrical interlocks prevent connection to both the Transmission and Distribution Systems at the same time. The connection to the Distribution System would normally be run open.
- 1.5 Attachment A shows the interlocking arrangements. This shows that the Distribution System connection cannot be connected whilst there is a connection to the Lackenby substation as it is mechanically and electrically interlocked. The upper left part of the drawing shows the feed from the Unit Auxiliary Transformer 00BBT10 which is the feed from the Power Station when running and from Lackenby 275kV when the Power Station is shut down. The upper right part of the drawing shows the connection from the Distribution System. The dotted line highlighted between the circuit breakers of the two circuits feeding the 11kV busbar is labelled EI and MI. MI stands for Mechanical Interlock and EI stands for electrical interlock. Note that the circuit breaker at 52-2 should be labelled NO (normally open). This will be corrected in the as-built diagram. The design of this system means a physical key will be released from one switch when in the open position to allow the other to be closed i.e. both switches cannot be closed thus avoiding both connections to be "paralleled".

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2. Non-Standard Primary BM Unit Application

- 2.1 As part of the registration of the CSU, the CRA reviewed the Primary BM Unit application against the single electrical line diagrams. In accordance with BSC Section K3.1.5 the CRA feels that there is reasonable doubt as to whether the Plant and Apparatus in the CSU Primary BM Unit, T_TSRED-1, or the previously registered Power Station Primary BM Unit, T_TSREP-1, meets the requirements of BSC Section K3.1.4(c). This is due to the Distribution System connection meaning that the CSU and auxiliaries to the Power station are measured by Metering Systems registered in both the Central Volume Allocation (CVA) and SVA markets. Therefore the CRA in accordance with the BSCP Section K3.1.6(a) is referring the establishment of these Primary BM Units to the ISG.
- 2.2 The ISG has previously approved a Metering Dispensation for Teesside due to the Metering Equipment not being at the Defined Metering Point ([ISG174/02](#)) and for a Trading Unit to combine the Primary BM Units relating to Teesside Power Station and the CSU on 27 October 2015 ([ISG174/03](#)).

3. National Grid Electricity System Operator and ELEXON comments

- 3.1 The National Grid Electricity System Operator's views on this application will be provided verbally at the meeting.
- 3.2 ELEXON recommends that the ISG agree this application on the basis that:
- the responsibility for the flows of electricity associated with each Primary BM Unit lie with one Party, MGT Teesside (Section K 3.1.2 (a));
 - the Plant and Apparatus associated with each of the Power Station and CSU Primary BM Units are capable of independent control from any other Plant and Apparatus (Section K3.1.2(b));
 - all volumes flowing from and to the Primary BM Units will be captured by compliant Metering Systems and these volumes will be determined separately from volumes to and from other Primary BM Units (Section K 3.1.2 (c));
 - The Primary BM Units comprise of CVA and SVA Metering Systems that measure the same Imports or Exports in contrary to (Section K 3.1.2(d)). Both the CSU Primary BM Unit and auxiliaries to the Power Station Primary BM Unit have a backup connection to the Distribution System which is measured by an SVA Metering System. The interlocking system means that each of the Primary BM

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Units are either measured by CVA Metering Systems with volumes allocated to T_TSREP-1 or T_TSRED-1 or are measured by SVA Metering Systems with volumes allocated to the respective Supplier Primary BM Unit so there is no dual counting in Settlement; and

- The Primary BM Units would be the smallest aggregation of Plant and Apparatus that satisfies K3.1.2 (a)-(c) (Section K3.1.2(e)).

4. Recommendations

4.1 We invite you to:

- a) **APPROVE** the non-standard Primary BM Unit for the Continuous Ship Unloader; and
- b) **APPROVE** a retrospective single non-standard Primary BM Unit status for the Teesside biomass Power Station

Appendices

Appendix 1 – Primary BM Unit Configurations

Attachments

Attachment A – Diagram SKM_C30818030908490

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APPENDIX 1 - PRIMARY BM UNIT CONFIGURATIONS

The BSC states that a Primary BM Unit shall comprise Plant and/or Apparatus for who's Exports and / or Imports a Party is responsible (Section K3.1.1).

A Primary BM Unit must satisfy the following conditions (K3.1.2):

- responsibility for the Primary BM Unit would lie with one Party;
- it would be capable of independent control;
- it would be visible to the Settlement Administration Agent (SAA) as a metered quantity separately from anything that is not included in the Primary BM Unit;
- the Primary BM Unit does not comprise of CVA and SVA Metering Systems that measure the same Imports or Exports
- it would be the smallest aggregation of Plant and Apparatus that satisfies the first three bullet points above.

The BSC also sets out a number of standard configurations of Primary BM Units (Section K3.1.4), including:

- a single Generating Unit (GU), Combined Cycle Gas Turbine (CCGT) or Power Park Module (PPM),
- a Combined Primary BM Unit,
- the Imports through the station transformers of a Generating Plant or premises, which are directly connected to the Transmission System, at a single Boundary Point.
- directly connected premises which are connected at one boundary point only

The BSC states that a Registrant and/or Central Data Collection Agent (CDCA) / Central Registration Agent (CRA) can apply to the Panel for a non-standard Primary BM Unit configuration in the following circumstances (K3.1.5):

- the Plant / Apparatus does not fall into a category listed in section K3.1.4 or the CDCA / CRA considers that there is reasonable doubt that this is the case;
- the Plant / Apparatus does fall into a category listed in K3.1.4 but the responsible Party considers that a different configuration would satisfy the requirements set out in K3.1.2; or
- there is more than one set of Exports / Imports at a CVA boundary Point and more than one Party is responsible for these.