

BSCP32/4.1 Application for a Metering Dispensation

Part A – Applicant Details

To: BSCCo	Date Sent: 16/11/2018
From: Requesting Applicant Details	
Name of Sender:	
Contact email address:	
Contact Tel. No.	Contact Fax. N/A
Name of Applicant Company: Gazprom Marketing & Trading Retail Ltd	
5 th Floor 8 First Street	
Manchester	
Lancashire	
Postcode: M15 4RP _____	Our Ref: _____
Name of Authorised Signatory: _____	
Authorised Signature: _____	Password: _____

Confidentiality:

Does any part of this application form contain confidential information?

Request for Confidentiality **NO*** **Delete as applicable*

If 'YES', please state the parts of the application form that are considered confidential, including justification below. Information that is considered confidential:

Reasons for requesting confidentiality:

.....
number, site name, expiry date (if any) and BSC Panel determinations will routinely be made available in the public domain unless the applicant informs BSCCo otherwise at the time of application

BSCP32/4.1 Application for a Metering Dispensation (Cont.)**Part B - Affected Party Details**

Number of Affected parties 2

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: Gazprom Marketing & Trading Retail Ltd	
5 th Floor , 8 First Street, Manchester	
Post Code: M15 4RP	

Contact Name at Affected party: Malcolm Taylor	
Contact email address:	
Contact Tel. No:	Contact Tel. No.
Company Name of Affected party: Northern Power Grid (Yorkshire) plc	
Address: Lloyds Court	
78 Grey Street.	
Newcastle upon Tyne	
Post Code:NE1 6AF	
Contact Name at Affected party:	

Contact email address:	
Contact Tel. No:	Contact Tel. No.
Company Name of Affected party: E.ON UK	
Address: Westwood Business Park	
Coventry	
West Midlands	
Post Code: CV4 8LG	

BSCP32/4.1 Application for a Metering Dispensation (Cont.)

Part C – Reason for Application

If the application is an extension or update for an existing Metering Dispensation, enter existing ref: D/.....

Site Specific / ~~Generic~~*

Due to the age of the existing switchgear for the Gascoigne Wood site E.ON UK, the proposed Registrant for the site's main Import MPAN, has applied for a separate Metering Dispensation (reference D/491) to meter the incoming feeders to NPG's 33kV switchgear instead of the root of the outgoing feeders to the site (the Defined Metering Point (DMP)).

We intend to create an Import and an Export MPAN to support the 20MVA Generation facilities (Allen Diesels) located on the Gascoigne Wood site. The Generation facilities are connected to the E1T3 circuit breaker associated with the existing switchgear (see below).

We require a Metering Dispensation for the Metering Equipment to be registered against these new MPANs because the measurement transformers for the Generation facilities cannot be located within the existing switchgear at the Defined Metering Point (DMP). The measurement transformers are located (Actual Metering Point (AMP)) 10 metres away from the DMP in a standalone CT/VT unit. All the Metering Equipment for the Generation facilities will be CoP2 compliant apart from location. The Meter Operator Agent will calculate the losses (and provide them in due course) from the AMP to the DMP and, if necessary, we will compensate for the losses for the 10 metre 33kV cable within the Meters. We believe the losses will be minimal and our proposal is for the owner of the network (Harworth Estates) to adopt the losses and recovers these via a connection charges. This has been discussed with Harworth Estates who are happy to adopt this solution.

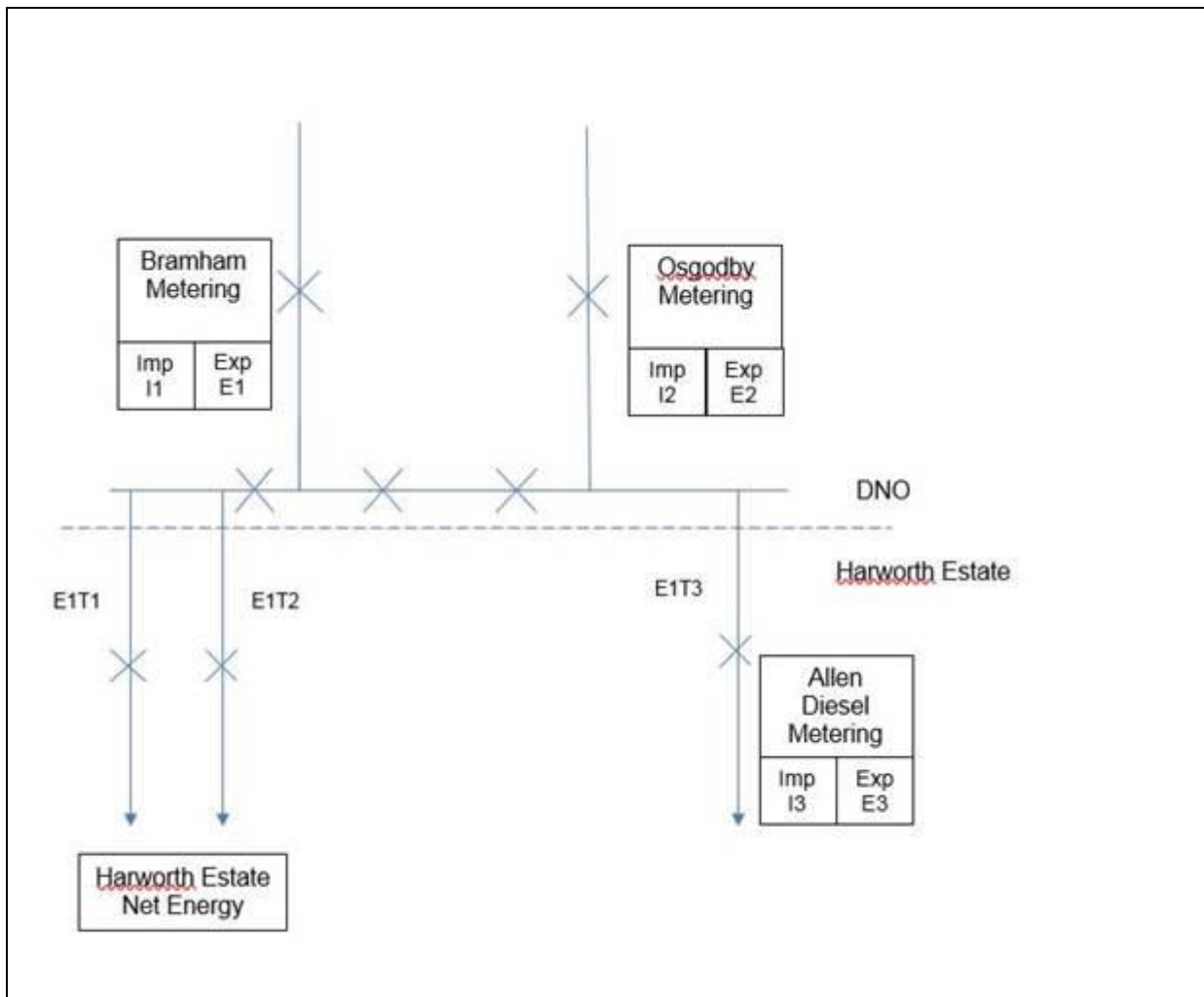
The MPANs for the Generation facilities are yet to be created by NPG who will release these on approval of the Metering Dispensation application.

Because the Metering Equipment for the Generation facilities is located below the whole site's Metering Equipment this is the complex formula which E.ON UK will use to work out the net flows for Gascoigne Wood site (Harworth Estates). E.ON UK will use its own new Export MPAN to facilitate the complex formula:

Gascoigne Wood (Harworth Estates) NET IMPORT = $((I1+I2)-(E1+E2))-(I3-E3)$

Gascoigne Wood (Harworth Estates) NET EXPORT = $((E1+E2)-(I1-I2))-(E3-I3)$

The Generation facilities' MPANs won't have a complex table however, the same DC needs to be used across both sites to facilitate the application of the netting table.



Period of Metering Dispensation required

Lifetime

If temporary, indicate for how long the Metering Dispensation is required.	N/A
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Provide justified reasoning for the period of Metering Dispensation requested in the box below:

The cost to upgrade the existing switchgear to comply with CoP2 would be prohibitive. As the connection is at 33kV, network disruption would also be caused whilst any physical site work is being undertaken.

The switchgear is owned and maintained by NPG and CTs and a VT cannot be installed within the switchgear due to its the age. The removal of the internal busbar to install CTs and a VT may cause irreparable damage to the site switchgear and will have operational impact to the 33kV network.

NPG has quoted at £1.5 Million to change the substation equipment. There would be an impact on the downstream private wire business park consumers and the lead time to physically change the equipment within the substations would be between 18-24 months.

The VT/CT unit (pictured on the left) is connected via cable to the E1T3 switchboard



Part D1 - Loss Adjustments for Power Transformer and/or Cable/Line Losses

Where loss adjustments are proposed and applied (or are to be applied) to the Metering System for power transformer and/or cable/line losses, provide the following information:

Minimal losses. These will be calculated (and provided in due course) and, if necessary to maintain CoP2 accuracy at the DMP, will be applied to the Meter.

Materiality

Please complete the following:

What is the cost of providing compliant Metering Equipment?	What does this cost entail?
£1.5 million	It will cost £1.5 million to fully comply with CoP2 (Issue 4). Installing CTs and a VT at the DMP within the existing old switchgear could damage busbar and cause disruption. Mitigation: Losses from DMP to AMP will be very minimal and the proposed solution will maintain CoP2 accuracy limits at the DMP.
What is the cost of the proposed solution?	What does this cost entail?
C. £55,000	£ - The new CT/VT unit cost £17k, the new COP2 Meters cost £8k £ – cost of installing CTs/VT and Meters was £30k including cabling
What is the impact to Settlement of your proposed solution?	Why?
There will be no impact to Settlements of the proposed solution.	Accuracy will be maintained within CoP2 limits at the DMP. Any losses from the AMP to the DMP will be minimal.
What is the impact to other Registrants of your proposed solution?	Why?
There will be minimal impact on the Registrant of the Boundary Point Metering System (and therefore the Customer (Harworth Estates)) if the Meters are not compensated for 10m of 33kV cable losses.	Due to the difference metering arrangement required, the losses (if not compensated for) between the AMP and the DMP (10 metres of 33kV cable) will be picked up by the Registrant (and ultimately the Customer (Harworth Estates)) of the Boundary Point Metering System. The Registrant and Customer (Harworth Estates) are satisfied with this arrangement.

Site Details (for Site Specific Metering Dispensation)

Site Name:	Gascoigne 33kV Substation
Site Address:	Gascoigne Wood Mine Substation, Lennerton Road, Sherburn in Elmet, North Yorkshire, LS25 6LH
MSID(s):	Import and Export MPANs for the Generation facilities Metering Equipment TBC
Registered in:	To be registered SMRS
For SMRS, please advise of SMRA in space provided.	Northern Powergrid (Yorkshire)

Manufacturer Details (for Generic Metering Dispensation)

Manufacturer Name:	N/A
Metering Equipment Details:	N/A

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Part D - Technical Details**Code of Practice details**

Metering Dispensation against Code of Practice*	CoP2
Issue of Code of Practice*:	Issue 4
Capacity of Metering Circuits/Site Maximum Demand (MW/MVA):	21MVA (based on capacity of the NPG 33kV overhead lines from the substation)
(Proposed) Commissioning Date of Metering:	All the Metering Equipment has been installed and will be commissioned once NPG assigns the MPANs.
Accuracy at Defined Metering Point:	CoP2 limits (+/-1%)
Accuracy of Proposed Solution (including loss adjustments):	Within the CoP2 limits (+/-1%). Meters will be adjusted, if necessary, to compensate for electrical losses from the AMP to the DMP.
Outstanding non-compliances on Metering Systems:	N/A
Deviations from the Code of Practice (reference to appropriate clause):	Appendix A, paragraph 7 (AMP not at DMP)

* insert Code of Practice number and issue

Any Other Technical Information

Meters will be compensated for measurement transformer errors.

Declaration

We declare that other than as set out above we are in all other respects, in compliance with the requirements of the relevant Code of Practice and the BSC. A schematic is attached to this application for clarification of the metering points involved.

Signature: *Date:*

Password:

Duly authorised for and on behalf of Applicant Company

Confirmation of Receipt and Reference

The BSCCo acknowledges receipt of this document and has assigned the reference number as indicated on the first page.

Signature: M Smith..... *Date:* 19 November 2018

Duly authorised for and on behalf of the BSCCo