UMSUG Paper – 15th March 2023

Latitude/Longitude Review

1. Purpose

To consider the appropriateness of the latitude and longitude provided in of the OID – A guide to Unmetered Supplies, subsection 6.1.2.

2. Background

Section 6 of the OID provides supplementary guidance to BSCP520 on PECU Array location and siting. Both BSCP520 and the OID mention the latitude and longitude for the geographical centre of the GSP Group.

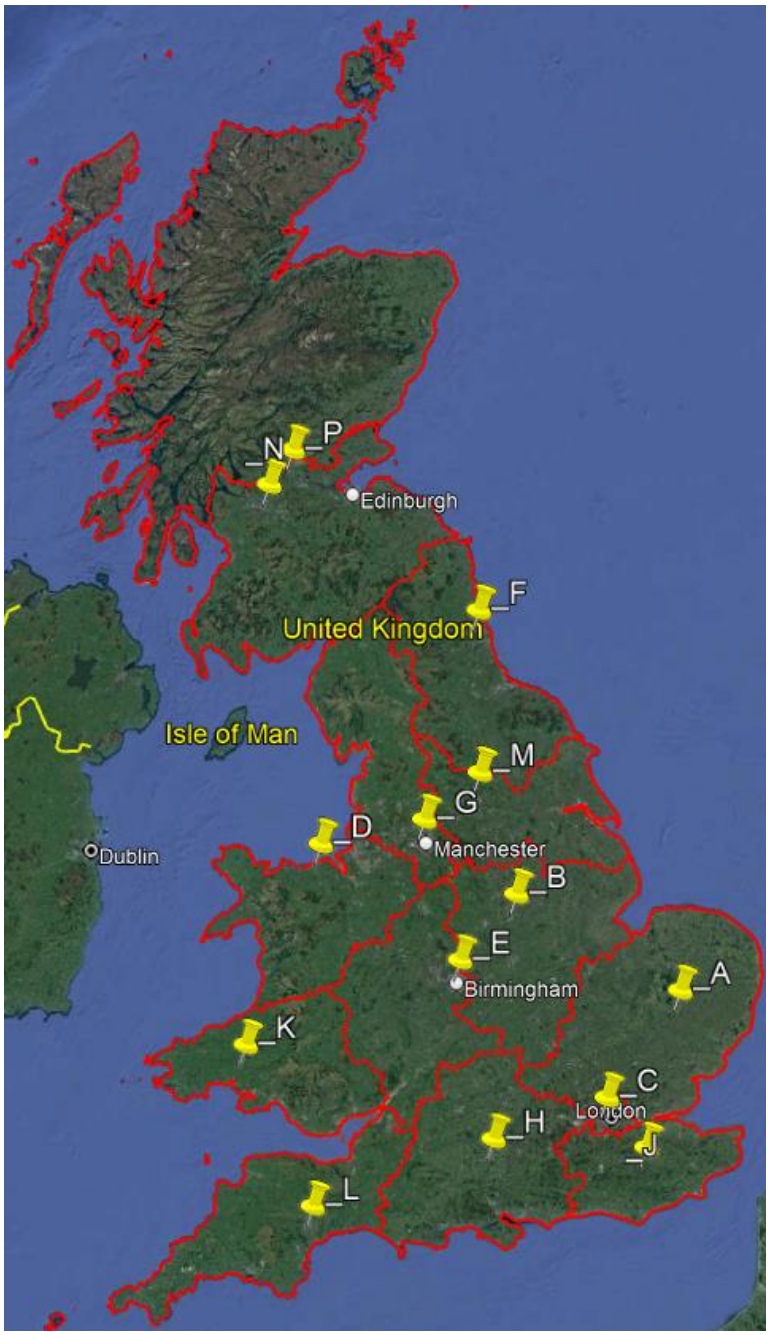
The following is an extract from the OID.

6.1.2 Latitude and longitude for the centre of the GSP Group

In the absence of more specific information, the latitude and longitude for the geographic centre of the GSP Group should be used.

The latitude and longitude coordinates provided in the OID were converted to their decimal equivalent and plotted onto a map of GB, as follows.

Data from OID				Decimal Equivalent	
GSP Group	**Location**	**Latitude**	**Longitude**	**Latitude**	**Longitude**
_A	Bury St Edmunds	52 15 00 N	0 43 00 E	52.25	0.71666667
_B	Nottingham	52 58 00 N	1 10 00 W	52.96667	-1.1666667
_C	London	51 30 00 N	0 10 00 W	51.5	-0.166667
_D	Rhyl	53 19 00 N	3 29 00 W	53.31667	-3.4833333
_E	Birmingham	52 30 00 N	1 50 00 W	52.5	-1.83333
_F	Newcastle	54 59 00 N	1 35 00 W	54.98333	-1.583333
_G	Manchester	53 30 00 N	2 15 00 W	53.5	-2.25
_H	Andover	51 13 00 N	1 28 00 W	51.21667	-1.4666667
_J	Tunbridge Wells	51 08 00 N	0 16 00 E	51.13333	0.266667
_K	Carmarthen	51 52 00 N	4 19 00 W	51.86667	-4.3166667
_L	Exeter	50 43 00 N	3 31 00 W	50.71667	-3.5166667
_M	Leeds	53 50 00 N	1 35 00 W	53.83333	-1.583333
_N	Glasgow	55 52 00 N	4 14 00 W	55.86667	-4.23333
_P	Stirling	56 07 00 N	3 57 00 W	56.11667	-3.95



GSP Group	DNO Group	Area
_A	UK Power Networks	Eastern
_B	National Grid Electricity Distribution	East Midlands
_C	UK Power Networks	London
_D	SP Energy Networks	Merseyside and North Wales
_E	National Grid Electricity Distribution	West Midlands
_F	Northern Powergrid	North East
_G	Electricity North West	North West
_H	Scottish and Southern Electricity Networks	Southern
_J	UK Power Networks	South East
_K	National Grid Electricity Distribution	South Wales
_L	National Grid Electricity Distribution	South West
_M	Northern Powergrid	Yorkshire
_N	SP Energy Networks	South Scotland
_P	Scottish and Southern Electricity Networks	North Scotland

Different rationale may have been used to determine the centre of the GSP Group. The mapping gives the impression that the centre point is either geographically central or a weighted central point.

In reference to North Scotland, GSP Group _P, the centre point is in South Scotland within GSP Group _N, previous information had the relevant location as Inverness. It can be presumed that this is an error in the OID. Other GSP Groups are also possibly incorrect and all should be reviewed.

The methodology and rationale used in the calculation of a central point in a GSP Group should be consistent between all GSP Groups.

It is therefore proposed that it would be beneficial to all UMS parties if an overall review of the latitude and longitude values, relating to the GSP centres, be undertaken to ensure settlement accuracy.

3. Recommendation

We invite the UMSUG to:
a) **NOTE** the existence of errors and inconsistency in the latitude and longitude coordinates relating to GSP Group centres in the OID; and

b) **AGREE** to review and update where necessary the latitude and longitude values relating to the GSP centres in the OID.

David Lewis

1st March 2023