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Our ref
R314

Your ref

Extension

Date
21st July 2006

Dear Richard,

CONNECTION OFFER MAERDY
WIND GENERATION

Further to your recent correspondence regarding the route and type of connection for the above project, I would make the following comments/observations:

1. Indicative Grid connection Route

Our intention is to carry out a survey of the proposed route to establish the best option. We will need to take into account topography, ground conditions, visual impact, access, clearance (to ground, trees, structures and other circuits) and the requirements of wayleave grantors. My initial observation is that both options may, subject to survey, satisfy these requirements. However, we would have concerns with the route alongside the reservoir if it is used for recreational purposes. For example, if used by anglers, we would need to ensure clearance from the areas from which casting could take place.

Our intention is to excavate a new route for the final cable connection into Maerdy Substation. The Grid Reference for Maerdy Substation is SS97209910.

2. Type of Connection

At 18 MVA the project is too large for connection into WPD's 11 kV network. To accommodate this capacity connection would need to be made to the 33 kV network.

The 33 kV network in the Maerdy area is configured as an overhead 33 kV ring circuit fed out of Hirwaun Substation. Protection of these circuits is afforded, in the main, by distance/impedance relays. In order to maintain the existing levels of security and achieve discrimination between the existing protection and that installed at the wind farm site, it will be necessary to establish a separate protection zone via the installation of a new 33 kV circuit breaker.

We considered connection to Ynysfeo Substation and Maerdy Substation. The Ynysfeo option was rejected due to cable route and access difficulties into the substation and the lack of space to extend the substation to accommodate an additional circuit breaker.

Underground connection was considered for the whole of the route. This was considered impracticable as the route would be through forested areas, rocky ground over varying contours. The route would not be covered by NRSWA and be vulnerable to disturbance and possible damage in the future. In addition the costs would be considerably increased for a cable route.

I trust the above answers the questions raised. If you have any further questions, or wish to discuss the project further, please do not hesitate to contact me

Yours sincerely

Ivor Rogers

Primary System Design