

5 February 2016



Mr Stephen Miller
Principal Civil Engineer
Wardell Armstrong
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SCOTTISH WATER

Service Relocation Team
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Our ref:-SRT/WD/DM/4194
Your Ref:-

Dear Mr Miller,

**DEVELOPMENT: Proposed Wind Farm Yell, Shetland.
OUR REFERENCE: 4194**

Thank you for your email of the 12 November 2015 and attached plan 'NT012001 sk01' requesting information for a proposed water main diversion at Yell, Shetland.

The water main in question is a 180mm HPPE distribution main servicing a large number of households in Shetland. You should note that Scottish water records are indicative only and I draw your attention to the disclaimer at the bottom of this letter. There appears to be two options:

1. Divert the water main which may involve your client in considerable expense.
2. Move the footprint of the proposed wind turbine so that it is clear of the water main.

If you decide to move the water main you should employ a Lloyds registered WIRS accredited designer competent to design the water mains diversions. (S)he should design the diversion to "Water for Scotland 3rd Edition" and Scottish Water Specifications and Standards. You will need to employ a Lloyds registered WIRS accredited contractor to divert the water main.

A list of providers is available at:
<http://www.lloydsregister.co.uk/schemes/WIRS/providers-list.aspx>

Please note the following in relation to the design:-

1. The construction drawings should show the pipe material, pipe size and the location of any apparatus associated with the diversion (valves, bends, anchor blocks, specialised couplings etc.)
2. The choice of material needs to be supported by an UKWIR site investigation report which specifically states what pipe material(s) would be acceptable.

3. The drawing should also state the working pressure in the area and the test pressure to be used.
4. The route should be such that Scottish Water can easily access and maintain the pipe in the future. The pipe should be at least three metres clear of any building or other obstruction. (Please show the critical dimensions on the plans). If the pipe goes through private land you will need statutory notices for any affected landowners and occupiers (including the developer).
5. The designer should check with other utilities to ensure that there is sufficient space in the chosen route to accommodate the pipe (and clearances) and that the diversion is buildable.
6. As stated above, the diversion should be laid by a Lloyds WIRS accredited contractor following Scottish Water's DOMS¹ procedures.
7. A health and safety box to satisfy the designer's responsibilities under CDM
8. As part of the DOMS process the designer needs to consider and advise how the diverted main is to be tied into the existing main with minimum disruption to Scottish Water's other customers. A completed DOMS impact assessment form (IAF) should be prepared as part of this information.
9. The water mains tie in to the network will be arranged by Scottish Water. There will be a charge for the review of the design and the tie-ins.

Please note that any work near potable water mains (e.g. trial holes, construction works, utility crossings, road construction etc.) requires permission under Scottish Water's DOMS procedures and you will require written approval from Scottish Water signed by the local Scottish Water operations personnel before carrying out these works.

Scottish Water will maintain an over view of the works and the Scottish Water Asset Impact Team will issue formal written "Technical Acceptance" of the proposals on behalf of Scottish Water prior to construction starting on site.

You should send your proposals and drawings to the Asset Impact Team for review and acceptance.

I trust this is of assistance, but if you have any further queries please get back to me.

Yours sincerely,



Gregor Campbell
Asset Impact Team
Scottish Water Disclaimer:

"It is important to note that the information on any such plan provided on Scottish Water's infrastructure, is for indicative purposes only and its accuracy cannot be relied upon. When the exact location and the nature of the infrastructure on the plan is a material requirement then you should undertake an appropriate site investigation to confirm its actual position in the ground and to determine if it is suitable for its intended purpose. By using the plan you agree that Scottish Water will not be liable for any loss, damage or costs caused by relying upon it or from carrying out any such site investigation."

¹ Distribution Operation and Maintenance Strategy – Scottish Water's process to safeguard the potable water supply to its customers