

Examiner's Second Written Questions

ExQ	Question to:	Question:	National Grid Gas Response:
Q1.1	The Applicant and National Grid Gas	Please provide an update on the outstanding matters in the SoCG.	With regards to the outstanding issues raised in the SoCG published at Deadline 2, the parties continue to discuss the protective provisions but agreement on the drafting has not yet been reached. Discussions have progressed since the SoCG was published and the majority of National Grid's concerns have been addressed. The parties will continue to work together to resolve the outstanding issues.
Q8.6	EA, UKHSA, Health and Safety Executive, National Grid, Western Power Distribution	<p>Please comment on the matters raised in AW's D4 submissions [REP4-013 and REP4-014] and questions Q8.1 to Q8.4 above insofar as they affect your areas of responsibility:</p> <p>Q8.1 – to the Applicant</p> <p>What provisions have been made to ensure the integrity and longevity of the Anglian Water (AW) pipelines during the construction and operational phases and following restoration? In your response, please address the issues of bank stability, hydrogeology, ingress of potential contaminants into the pipeline, the proximity of surface water storage lagoons, the potential for corrosion and physical impact from changes to external loadings and crossings.</p> <p>Q8.2 – to the Applicant</p> <p>What provisions have been made to enable access for maintenance and repair of the AW pipelines during the construction and operational phases and following restoration?</p> <p>Q8.3 – to the Applicant</p>	<p>National Grid comments in relation to Q8.3(e).</p> <p>There are a number of potential impacts on National Grid's high-pressure gas pipeline (NG Pipeline) that could arise in the event of a failure of the AW pipeline, which could ultimately lead to leakage and/or interruption of service:</p> <ul style="list-style-type: none"> a) Failure of a AW pipeline is likely to cause soil erosion (the scale of which would depend on the local ground conditions at the time), which may create a void around the NG Pipeline. The loss of support from the soil causes additional loading and stress on the infrastructure which may impact on the integrity of the pipeline leading to leakages. b) Release of stored energy in the event of a rupture of the AW pipeline, as well as the potential for water jetting and debris, could result in damage to the NG Pipeline. c) Fast flowing water against the NG Pipeline could also erode its protective coating. However, should any pipeline be exposed, the coating would be thoroughly examined and any repairs made before the pipeline was reburied. <p>The NG Pipeline complies with the industry standard IGEM/TD/1, covering the design, construction, operation and maintenance of high pressure pipelines, demonstrating compliance with The Pipeline Safety Regulations 1996. However, the extent to which the NG Pipeline could</p>

	<p>Please comment on the concerns of AW [REP4-013 and REP4-014] regarding the effect of the Proposed Development on its pipelines with regard to:</p> <ul style="list-style-type: none"> a) the integrity and longevity of the pipelines; b) the potential for contamination of the water supply due to the presence of LLW; c) the potential for contamination of the water supply in the event of a failure of an AW pipeline; d) the potential for contamination of the site and surrounding area in the event of a failure of an AW pipeline due to the mobilization of LLW and other contaminants; e) the effect on other utilities infrastructure, including the proposed undergrounded electricity line and the high-pressure gas pipeline, in the event of a failure of an AW pipeline. <p>Q8.4 – to AW</p> <p>Please expand on the concerns set out in AW's D4 submissions [REP4-013 and REP4-014] with particular regard to:</p> <ul style="list-style-type: none"> a) quantification of the increased risk of failure of an AW pipeline as a result of the Proposed Development; b) the options for avoiding/mitigating the increased risk of failure of the pipeline (for example, routes for diverting the pipelines or, if the pipelines were retained in their current positions, increased stand-off distances and/or enhanced protective 	<p>be affected by a failure of the AW Pipeline is dependent on the circumstances of the failure and factors such as local soil conditions, extent of debris, attributes of the AW Pipeline (diameter, material, operating pressure, etc.), direction of the leak/failure and extent of pooling and volume of water.</p> <p>National Grid notes that the impact of such a failure would be dealt with by way of the protective provisions being negotiated with the Applicant.</p>
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