

As requested by the ExA I ask for a formal accompanied site inspection to [REDACTED].

Reason for request is my garden backs onto the proposed National Grid and East Pye substations.

Site1/ sub-site 1B

Following on from OFH2 I wish to expand on my concerns over the proposed development.

I make reference to the following: National Grid technical guidelines note 287

Titled Third party guidelines for working near National Grid Electricity Transmission Equipment.

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Some of this I have para phrased to pick out the relevant points.

Noise. Page 09.

To quote. Noise is a product of National Grids operations. Low frequency hum from substations can in some circumstances be heard up to 1km or more from the site.

The question: I would like to know how this noise is going to be stopped. The substation is on my boundary and approximately 310 meters from my home. The majority of the homes in Great Moulton fall into the less than 1km distance from the site and would be affected by noise.

Earth Potential Rise. Page 09.

To quote. Under certain system fault conditions and during lightning storms a rise in earth potential from the base of an overhead line tower or substation is possible. This can pose a serious hazard to people.

The question is: In certain systems fault conditions which I am unlikely to know about, if I am in my garden what is the serious hazard that I or my family may be exposed to by the towers or substations? Could it be fatal?

Fires and Firefighting. Page 10.

To quote. Water hoses will not be used if high voltage conductors are within 30 meters of the seat of a fire.

The National Grid would have to reconfigure the system to allow staff to switch out the high voltage conductors which could take several hours.

The question is: What would happen if there was a fire at the substations or a fire on my property next to the substation.

What would be put in place to prevent this situation arising and how would the local fire service deal with this if it happens ?

Water contamination.

The question is: How will the water run off and water absorption from the National Grid substation and smaller substations be achieved without the risk of pollution. I have a small lake which is 12 meters from the boundary fence. It is filled from a spring and ground water along with 3 other ponds on my property.

EMF.

The question is: How safe is it to live near a significant electrical substation and equipment which emits electro magnetic fields in its day to day working. Is there a risk of leukaemia to children who would play in our garden which would be next to the National Grid 500MW substation, East Pye substation and 400KV transmission lines ? It seems that the magnetic fields are able to pass through buildings, trees, hedges and walls.

I ask the ExA specifically to ask the applicant to comment on this point and explain the risks if any.

Horlock Rules and Schedule 9 of the Electricity Act 1989.

National Grid states that it uses the Horlock Rules to help meet its duties under Schedule 9 of the Electricity Act 1989 when considering impact of their activities on the landscape. After reading the Horlock Rules and Schedule 9 it seems that a significant number of the requirements to comply with fail.

Examples of non compliances:

1. Ensuring that the natural beauty and character of the area is preserved.
2. Minimise visual impact of their assets through careful site selection and screening.
3. Avoid proximity to settlements and residential receptors.
4. Protect rural tranquillity and amenity.
5. Avoid visually prominent, elevated or exposed sites.
6. Protect biodiversity and cultural resources for future generations.
7. Avoid open farmland landscapes.
8. Avoid locations where night lighting will be widely visible.

In conclusion I am concerned that new technology for generating power is not being considered, such as the Rolls Royce Small modular reactor (SMR). South Norfolk is at risk of being flooded with what will be old inefficient technology that will only produce power when the sun is out. The proposed site for the National Grid substation is in the wrong place and will destroy Great Moulton for so many reasons.