

Written representation (due November 2<sup>nd</sup> 2020)

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[REDACTED]

To the Planning Inspectorate team

I fully endorse the varied and numerous points made by all the speakers at the recent Open Floor Hearings 1 to 3.

I live at [REDACTED], a grade two listed building that sits in an elevated position to the west and on the opposite side of the valley to the proposed site. As a result we have an excellent overview of the proposed development site and would like to extend an invitation to the team for a site visit.

This elevated location of the property means it will be extremely exposed to noise pollution, light pollution and the air pollution that will be emitted from both the construction of this site and the permanent hum/tonality that will be radiated from the final structures.

Due to a request from someone at the local council very early on in this process SPR informed the village at a meeting in the Village hall that they would be reducing the height and removing the attenuation from the tallest structures (FYI: these are the cooling towers and the element of the buildings that emit the most noise, therefore this reduction of height will exacerbate the noise) – we were constantly told throughout the entire consultation (with the exception of the final one), that SPR would install the appropriate sound attenuation to match the existing environment noise levels. Should this site get approval it will be seen for miles around anyway, so why penalise the local residents whose lives will be permanently blighted by a louder perpetual hum (twenty four hours a day) by reducing its height by a token number of meters? I would ask that the final noise emitted from this project and how best to attenuate it should take precedent over its height or what it looks like to people passing through the nearby area.

A factor that will additionally impact and increase the volume of noise is the location of this site on the side of the valley – as I am sure you are aware the alignment of land that creates a valley also creates differences in temperature which create mist or 'valley fog' - this is the case with the valley in Friston where the mist is often trapped for extended periods, unable to dissipate at an accelerated rate due the sides of the valley. The relationship of electricity with water causes additional sound to be emitted - the sound of corona ['corona' is

the name given to the buzz/crackle given off around pylons and isolators] is actually the air around the equipment breaking down electrically, or "ionizing". According to BC Hydro specialist engineer Mazana Armstrong "Water droplets like rain, snow, or even fog and mist, help speed the electrical breakdown of the air particles, making the corona louder and easier to hear"\*. This statement fits with the increased sound the pylons make in damp/wet conditions in the valley at Friston. The proposed site, which will be filled with exposed electronic equipment, is to be located nearer the village than the existing pylons – what volume of noise will be generated on a wet day?

There is a bund around SPR's substation (Gallopier) at Sizewell – my understanding was that this was to help attenuate noise – I have subsequently discovered that whilst it does indeed help with the noise reduction, that is secondary to its primary function; which is for the earthworks to catch any flying debris should the equipment explode! It is not clear on SPR's plan what is in place to protect Friston House, or indeed the village of Friston from such an explosion.

Mental health is also an area of enormous concern – the stress caused by the consultation process that we have been subjected to over the past two years has similarities to the symptoms of grief. One of the effects of bereavement, in addition to the loss of the person, is mourning the loss of your planned future, which through no fault of your own is now no longer available to you – this often results in depression, the inability to sleep, accompanied by high levels of anxiety (the knock on affects of all these symptoms are extensive). The outright lies told by SPR representatives (along with a plethora of mistreatment of the local community) has resulted in a total mistrust of anything SPR might say - this project has not even been granted permission, but the mere possibility of being at the mercy of such a shambolic company has already had a detrimental effect on the local community's health.

In addition, what nobody knows - as there appears to be no study conducted (none that I could find) is the impact on human health with the consolidation of so much permanent electronic equipment (with its subsequent emissions of both electricity and permanent tonality noise) so close to human habitation – the actual size of this proposed development so close to a village is unprecedented in the UK – simply shocking that the proposed site selection is right next to a village. Are the villagers to be the guinea pigs for this study?

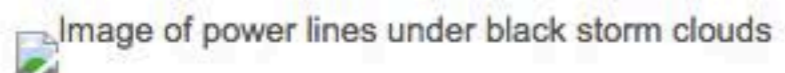
This is the wrong site for this development – next to a village; on the side of a valley which creates mist (as well as being where the run off of water causes flooding in the village) is absurd. Drilling through fragile cliffs; carving up miles of a rural landscape through an AONB (which includes the protected Sandlings) and all the irreversible damage that it will cause to humans; peoples lively hoods; the landscape and wildlife in order to reach the proposed site is scandalous – selecting an area where the roads surrounding

the site are either single lane with passing area's or require the car traveling in the opposite direction to have to pull into the hedge when the local bus or a large tractor is coming in the opposite direction beggars belief. How is it right that one industry can destroy another? Apart from farming this area relies heavily on tourism and a large retirement community, which in turn supports countless local industries and businesses – the area's assets are: the coast; its beauty; its rural setting; the clear night sky and the silence – all gifts from mother nature, not dissimilar to that of the wind that is being harvested by this proposed project. SPR (and the other proposed projects) will destroy this entire area, which is the very thing that enables the local economy to prosper – this region will be plunged into poverty if permission is granted - I urge you to reject this application and redirect it to one of the brown field sites that have been recommended.

Attachment to support \*

NOV 13, 2014

# Sound of 'crowns': why power lines make more noise in the rain



## Wet, foggy, or snowy conditions can increase that buzzing sound

Posted by Chelsea Watt

Have you ever noticed a buzzing or crackling sound when you've been near overhead power lines? Did you notice that the sound is more noticeable when it's raining or wet outside (a weather condition that's certainly not in short supply in B.C.'s fall and winter months)?

Well, that sound has a name, according to BC Hydro specialist engineer Mazana Armstrong.

Corona, Latin for crown, is the name for the luminous "crown" of tiny sparks that can, very rarely, be visible around equipment such as power lines and insulators. It's this crown that causes the occasional buzzing and crackling that you can hear.

According to Armstrong, it's rare to actually see the namesake glow along power lines in B.C., but the buzzing sound can be readily apparent in the right conditions.

The sound of corona is actually the air around the equipment breaking down electrically, or "ionizing". Armstrong says to visualize it as tiny sparks forming a halo or an aura around the equipment.

"Water droplets like rain, snow, or even fog and mist, help speed the electrical breakdown of the air particles, making the corona louder and easier to hear," she says.

And larger transmission lines, such as 500-kilovolt lines, do generate more corona and louder buzzing when the weather turns wet.

But since corona is usually limited except in certain weather conditions, and especially in cases where power lines are located near significant sources of light pollution, don't expect to see power lines glowing.