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Our ref: CTIL_30292501_TEF_88921

MP Jeff Smith
House of Commons
London
SW1A 0AA

Email: jeff.smith.mp@parliament.uk

VIA EMAIL

28th February 2020

Dear Mr Smith

PROPOSED RADIO BASE STATION INSTALLATION AT CTIL_30292501_TEF_88921 SW OPPOSITE FAIR OAK ROAD, BURNAGE LANE, BURNAGE, GREATER MANCHESTER, M19 1FG. NGRS E:386615 N:392309

Cornerstone Telecommunications Infrastructure Ltd (Cornerstone) is a joint venture company owned by Vodafone Limited and Telefónica UK Limited, commonly known as O2, who manage a single grid network across the UK for these companies. This agreement allows both organisations to pool their basic network infrastructure, while running two, independent, nationwide networks. It maximises opportunities to consolidate the number of base stations and where possible can significantly reduce the environmental impact of network development.

5G rollout has begun and both Vodafone and Telefónica are in the process of upgrading their existing radio base stations in their single grid network wherever possible. As part of this continued network improvement program, there is a specific technical requirement to provide new 5G coverage in this area of Burnage. An existing streetworks style base station has been identified in the area, however it cannot accommodate for both operators latest requirements. In order to fit in to the operator's single grid network, an additional new streetworks style base station is required for Telefónica service in close proximity to the existing streetworks style base station that will be retained and in due course upgraded with improved Vodafone service.

As a result we are consulting with communities in line with Best Practice principles where planning applications for new telecommunications installations are required.

This letter is sent to you in the pre-planning application consultation phase of the development for a new mobile phone base station site for Telefonica. It is simply intended to keep you informed and advised of the proposed development in your area prior to any planning application being submitted. However, if you do wish to submit comments or have been contacted by your constituents in relation to this matter and wish to send us comments on their behalf, please feel free to do so via the following address:

Community Consultation & EMF Enquiries, Hive 2, 1530 Arlington Business Park, Theale,
Berkshire, RG7 4SA

Email: community@ctil.co.uk

What follows is a summary of the proposal and some further information that might be of use.

Summary of the proposal

A number of options have been assessed in respect of the site search process but we consider the best option for the new service provision to comprise installation of a 20m slim-line column supporting 6 no. antennas, 2 no. transmission dishes, 2 no. equipment cabinets and ancillary development thereto including a GPS module, and 3 no. Remote Radio Units (RRUs).at the **BURNAGE LANE, BURNAGE, GREATER MANCHESTER, M19 1FG. NGRS E:386615 N:392309**. This is because the operator is limited in siting options as there is a requirement to provide equivalent replacement coverage and capacity for this area of Burnage. The replacement of an existing site means that the operator has to be located as close as possible to the existing installation in order to maintain the provision of equivalent coverage and capacity to the surrounding local area. This is the nearest suitable location that the operator is able to position their replacement apparatus.

The proposed height at 20m is essential in order to provide equivalent replacement coverage to the target coverage area. 5G new radio technologies operate in higher frequency bands than older technologies. Since it operates at higher frequencies where attenuation of the radio signal is naturally higher and the effects of clutter are greater it will normally require a higher structure to achieve the same coverage footprint.

In order to minimise the width of the proposed column, the antennas are split in to a dual stack formation where 3 antennas will be located at the top of the column and the other 3 antennas will be located underneath. Thus, if the column were to be any lower, the antennas would not be able to operate effectively nor reach the target coverage area.

The column is a simple, functional, vertical structure necessary to provide replacement and new service provision to Burnage and the surrounding area. There are other vertical structures in the streetscene which will help it assimilate in to the local environ. The column is proposed to be finished in a grey colour but can be coloured any other colour that the LPA consider appropriate.

The cabinets are designed to appear like other statutory undertakers equipment cabinets. They are small for telecommunications apparatus and are proposed to be coloured green to assimilate with other equipment cabinets commonly found in urban environments. The cabinets can be installed under the operators permitted development rights, but have been included on the plans and in the description in order to remain fully transparent.

The RRUs are designed to make the antennas more efficient and reduce the need for equipment cabinets at ground level, therefore minimising ground level clutter in this area. They are located underneath the lowest set of antennas, out of the natural eye line of the casual passer-by and therefore will not appear prominent in the streetscene.

The other site options that were considered and then discounted are as follows:

Site ³	Site Name and address		NGR	Reason for not choosing ⁴
ETS - existing Telecom site	Name	Existing VF SW Site	Eastings 386586 Northings 392075	SP - Site Provider
	Line 1	Burnage Lane (outside Shops)		The operator has fully investigated upgrading this site to provide the latest technologies for 4G services as well as new 5G coverage/capacity in to the Telefonica network. However, the design of the existing pole is not able to support the new 5G antennas for both Vodafone and Telefonica without being significantly redesigned and replaced with a much bigger and bulkier structure. This would have a greater detrimental impact on the visual amenity of the streetscene than installing another radio base station for Telefonica nearby. This existing telecommunications site has been discounted for Telefonica's new technology requirements for this reason. A new replacement site for Telefonica is therefore needed to provide this operator with the latest 2G, 3G 4G and 5G technologies'.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1LH		
ETS - existing Telecom site	Name	Existing EE SW Site	Eastings 386587 Northings 392045	RD - Redevelopment not possible
	Line 1	Burnage Lane (outside Shops)		It is not possible for Telefonica to share a Streetworks structure with EE and include all the required technologies/antennas for both operators and maintain the required distances to stop any radio interference. This option was therefore discounted as unfeasible due to potential interference.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1LH		
GF - Greenfield	Name	SW on Footway/Verge	Eastings 386668 Northings 392033	P - Planning
	Line 1	Outside 293 Mauldeth Road		This location is situated directly outside a number of residential properties. It was the Operator's opinion that this location would have a more significant impact on the residential amenity of the surrounding area than the proposed site would have. It was therefore discounted on this basis.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1DZ		
GF - Greenfield	Name	Heaton Moor Golf Course	Eastings 386744 Northings 391995	P - Planning
	Line 1	Mauldeth Road		The Golf Course falls within the corner of the search area, however this location is surrounded by mature trees with heights in excess of 20-25 metres, a Mast in excess of 25 metres is likely to be required and this was deemed to be an unsuitable height for a new ground based mast in such an urban location and it would have a greater visual impact on the surrounding area than the subject site would
	Line 2	Heaton Moor		
	Town	Stockport		
	County	Greater Manchester		
	Postcode	M19 1DZ		
GF - Greenfield	Name	Playing Field - Burnage School for Boys	Eastings 386632 Northings 392263	SP - Site Provider
	Line 1	Burnage Lane		This location is within the School Playing Fields. The Fields are in an open location with no screening, therefore this was deemed to be a highly visible location and would have a greater visual impact on the surrounding area than the proposed site would have.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1EA		
GF - Greenfield	Name	SW on Grassed Area	Eastings 386592 Northings 391925	P - Planning
	Line 1	Moorcroft Drive		This location is situated directly outside a ring of residential properties. It was the Operator's opinion that this location would have a more significant impact on the residential amenity of the surrounding area than the proposed site would have. It was therefore discounted on this basis.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1NL		
GF - Greenfield	Name	SW adj. to VF SW	Eastings 386583 Northings 392081	T - Technical Difficulties
	Line 1	Burnage Lane		There is insufficient space on the footway at this location to install a further SW installation.
	Line 2	Burnage		
	Town	Manchester		
	County	Greater Manchester		
	Postcode	M19 1LH		

In line with Best Practice principles we have shared these details with planning officers, the local ward councillors for Burnage Ward.

ICNIRP Compliance

All Telefónica installations are designed to be fully compliant with the public exposure guidelines established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). These guidelines have the support of UK Government, the European Union and they also have the formal backing of the World Health Organisation. A certificate of ICNIRP compliance will be included within the planning submission.

Radio technology and health

Useful information sources on this include:

Code of Best Practice on Mobile Network Development

<http://www.mobileuk.org/cms-assets/documents/259876-147086.code-of-best-practice-2016-edition-pub>

National Planning Policy Framework www.communities.gov.uk

World Health Organisation – Electromagnetic Fields www.who.int/peh-emf/en

International Commission on Non Ionising Radiation Protection www.icnirp.de

I trust all is clear from the enclosed but if you have further questions on this or any other matter concerning Telefónica please do not hesitate to contact us through Community Consultation & EMF Enquiries within 14 days from the date of this letter.

Yours sincerely

A handwritten signature in blue ink, appearing to read "J. Hann".

Jennie Hann BSc MTPL MRTPI

Planning Manager

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(For and on behalf of Cornerstone and Telefónica UK Limited)