Our ref: STY22941

The Headteacher
Monkton Infant School and Nursery Unit
St Simon Street
South Shields
NE34 9SD

Email: caskwith@monktoninfants.org.uk **Via Email**

2nd March 2023

Dear Sir/Madam,

**PRE-APPLICATION CONSULTATION – PROPOSED RADIO BASE STATION INSTALLATION AT STY22941 GRASS VERGE OF DAME FLORA ROBSON AVENUE, BROCKLEY WHINS, SOUTH SHIELDS, TYNE AND WEAR, NE34 9EE, NGR E: 434938 N: 563812.**

Gateley Hamer act on behalf of mobile telecommunications operator CK Hutchison Networks (UK) Ltd. The proposal is to install a radio base station, in order to provide the latest 3G, 4G and new 5G technologies to the Brockley Whins area.

As part of CK Hutchison Networks (UK) Ltd continued network improvement program, there is a specific requirement for an installation at the grass verge of Dame Flora Robson Avenue to ensure that the latest high quality 3G and 4G service provision is provided in this area of the city. The proposed column will also ensure that new 5G coverage can also be provided at this location. This ensures that coverage and capacity requirements are maintained.

The proposal, which we feel is the best solution to serve our customers in the local community, will include: installation of 15m high slim-line monopole at the **STY22941 GRASS VERGE OF DAME FLORA ROBSON AVENUE, BROCKLEY WHINS, SOUTH SHIELDS, TYNE AND WEAR, NE34 9EE, NGR E: 434938 N: 563812.** Enclosed for reference is a site location plan and an indicative drawing of the proposed monopole.

The proposed height at 15m is essential in order to ensure the latest 4G and new 5G technologies are provided in the Brockley Whins area. These latest technologies operate at higher frequency bands than older technologies such as 2G and 3G. The higher the frequency band the greater the radio signal is naturally weakened. This means that the effects of clutter are even more significant than for the provision of older technologies. As a result, a higher column is normally required to maintain the same coverage footprint. The latest 4G technology and new 5G service provision carry higher capacity and data speeds to the user, this leads to such antennas having to be positioned at a higher height than more standard antennae and in turn a taller antenna height for 5G service provision.

The antennas are proposed to be open and not shielded as this provides the optimal service provision to the surrounding area. If the antennas were to be shrouded, they would not be as efficient at providing the latest technologies to this cell area. Thus an additional installation would likely to be required in this cell area which would lead to the proliferation of masts contrary to the NPPF.

The transmission dishes are required in order to provide a link into the network. A clear line of sight is required in order for it to meet its design brief. Therefore, require a centre line height of 15m.

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 commonly found equipment cabinets. 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.

All CK Hutchison Networks (UK) Ltd 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. In fact, because of the very low power utilised by telecommunications sites the emissions will be many times lower than the ICNIRP threshold.

We would welcome your views (within 14 days of the date of this letter) before we finalise the proposal and submit the planning notification to the Local Planning Authority.

Yours faithfully

Hannah Robinson
Planner
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(for and on behalf of CK Hutchison Networks (UK) Ltd)