



PLANNING & BUILDING CONTROL
STAFFORDSHIRE MOORLANDS DISTRICT COUNCIL
Moorlands House
Stockwell Street
Leek
Staffordshire Moorlands
ST13 6HQ

Our Ref: ETMA12544620

Dear Sirs

Date: 30th March 2016

Application for prior approval determination under Part 24 of the GPDO in respect of permitted development by a Telecommunications Code System Operator.

Under the conditions laid down in part 24 of schedule 2 of the above legislation, we understand that the telecommunications development listed below falls into the category of permitted development. However, we are writing to invite your prior approval to the siting and appearance of the development as required by para A-2 (4) of Part 24.

The apparatus is required to provide urgent service commitments and we therefore wish to install this equipment as soon as possible. Your earliest response regarding this submission would therefore be appreciated. In accordance with the terms of the GPDO, if we have not received any response to this application within the statutory 56 days of its receipt, we intend to proceed with the development as planned.

Contact details of Applicant

Name: Mark Attenborough

Tel: 0121 232 7785

Email: mark.attenborough@openreach.co.uk

Location of Proposal

CHEADLE TELEPHONE EXCHANGE
THE AVENUE
CHEADLE
STOKE ON TRENT
STAFFORDSHIRE
ST10 1EG

Grid Reference of proposed development. SK 00920 42970

Purpose of Development and how the proposed installation differs from other cellular radio installations

This is not a cellular radio infrastructure development. BT deploys the majority of its radio links in response to Customer orders for service, which have short contractual delivery times. The overall pattern of these orders is not usually predictable and is not therefore practical to produce a radio network roll-out plan.

The proposed installation is designed to provide point to point telecommunication services to a local mobile phone cell site. The transmitter section of the installation operates at very low power, as is the nature of most microwave point to point radio systems, and the radio frequency energy is directly aimed at the far end of the link. This type of installation will not work if the two antennas are not perfectly aligned and the path between them completely clear of obstructions.

Cellular radio installations (cell site or mobile phone base stations) on the other hand, are point to multi-point systems with a low power radio transmitter to transmit radio waves to mobile phones. Their antennas are aligned to give 360 degree coverage around the site and the radio emissions are aimed at the ground within the cell or area they are designed to operate in.

The Proposed Structure

The structure is designed to replace the existing monopole and provide support for an additional 0.3m diameter dish antenna, its associated 2 x small equipment modules and Orthogonal Mode Transducer (OMT) assembly.

It has also been particularly sited to give a clear line of sight to the three existing radio systems and to T-Mobile 93928, Ipstones Edge, for the new.

The additional height is necessary to accommodate both the existing and proposed antenna at a level which provides sufficient clearance over obstacles along the respective radio paths. Since the original structure was installed in 1997, the path clearances of two of the existing radio systems have been eroded by tree growth.

Type of structure: A 12m high, heavy duty steel column supporting 4 x 0.3m diameter dish antenna at heights between 9 and 12m above ground level. Two antennae are equipped with integral small equipment modules and the remaining two having their associated equipment modules located lower down the column on fixtures at approximately 4m above ground level.

Overall height: 12metres.

Type of material and external colour of structure: STEEL (GREY GALVANISED FINISH)

The Existing 10.5m high monopole will be dismantled and removed from site once a successful transfer of the existing radio systems onto the new structure has been completed.

Distance from Airfield or Aerodrome

The structure is within 3km of an airfield or aerodrome: NO

The Civil Aviation Authority or Secretary of State for

Defence (as appropriate) has been notified:

NO

Other methods of network connection

Interconnection to the BT network is achieved through one of our telephone exchanges or radio stations. This can be achieved by using either the existing copper network, or providing new optical fibre cable or microwave radio; each medium is considered in this order of priority when assessing the most cost effective method to be used for the delivery of services to our customers.

The existing copper network will not support the bandwidth of this new service and therefore it is eliminated from any further consideration.

The results of detailed surveys carried out for the provision of optical fibre cable to T-Mobile 93928, Ipstones Edge, show the estimated cost for the provision of this cable is far in excess of that for radio, the exact figures are commercially confidential, but without the possibility of other customers being served by this new cable, the expected generated revenue would not justify the large investment required for its provision.

Site Sharing on Existing Structures

In order for any existing structure to be used the structure must be capable of supporting our apparatus and it must be possible to access that apparatus safely within the required time scales. This applies whether the structure is located at a BT Telephone Exchange, Radio Station or third party owned site where a BT network access point is available.

There are no suitable existing structures, within the transmission limits of the proposed equipment, available for use.

The structural capacity of the existing monopole will be exceeded by the attachment of the proposed 0.3m dish antenna, associated 2 x small equipment modules and OMT assembly.

Radiation Risk assessment

Health and safety is at the very heart of BT's ethos - we are very conscious of our responsibility to the public, employees, customers and other stakeholders.

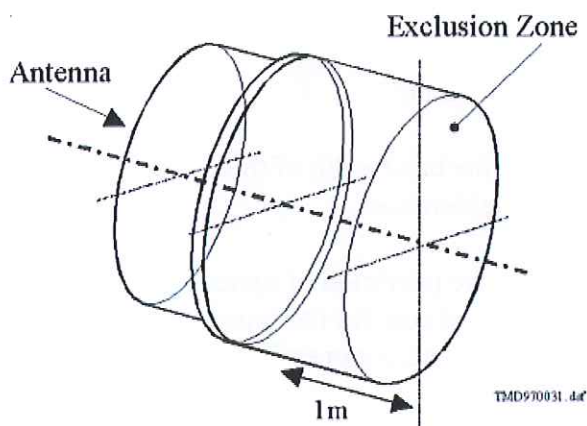
BT conforms to the International Commission on None-Ionising Radiation Protection, ICNIRP (International), guidelines for public exposure established by the Independent Expert Group on Mobile Phones (IEGMP) set up by The Minister of Public Health in early 2000, under the chairmanship of Prof. Sir William Stewart. These guidelines are supervised by the National Radiological Protection Board (NRPB).

The ICNIRP guideline for continuous exposure at the frequency of 18GHz is 10 Watts/square metre; the maximum level that anybody at ground height would be exposed to from our installation at Cheadle Telephone Exchange. is thousands of times lower than this figure, bringing it into the range of 0.00001 Watts/square metre, this is depended on the height of the antenna, thus the greater the height of the antenna above the ground the greater the safety margin.

When working aloft and in the vicinity of the microwave dish (antenna) an exclusion Zone of one metre in front of the dish, as illustrated below, is recommended. This exclusion zone will ensure that the ICNIRP public guidelines are not exceeded and

that the line of sight required by the communications equipment is not interrupted thereby maintaining the level of service required by this installation.

Exclusion Zone Illustration



In summary, the NRPB and other reputable agencies have advised that there is currently no convincing scientific evidence of a risk to health through exposure to non-ionising radio frequency (RF) waves below the national guidelines.

This is further supported by the World Health Organisation (WHO) and the IEGMP committee who have stated that exposure levels from RF non-ionising radiation that meet the current guidelines do not cause adverse effects to the general population.

Please forward all correspondence to the address shown below.

Attached

ICNIRP Certificate

Plans

Evidence of owner notification

Yours faithfully

Mark Attenborough
Radio Planning Engineer

BT Openreach

Network Delivery – Radio (UK South).

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