

SITE SPECIFIC SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	Hemingfield Road	Site Address:	Hemingfield Road,
NGR:	439083, 402079		Hemingfield Road
			Roundabout,
			Hemingfield,
			Barnsley,
			S73 0NH
Site Ref Number:	95097	Site Type: Macro	Upgrade

2. Pre Application Check List

Site Selection

Was an LPA mast register used to check for suitable sites by the operator or the LPA?		No
If no explain why:		
After a phone call to the LPA it was felt that the industry database was a more up to date source of information.		
Was the industry site database checked for suitable sites by the operator:	Yes	
If no explain why:		
N/A		

Annual roll out consultation with LPA

Date of last annual rollout information/submission:	19/10/2010
Name of Contact:	Joe Jenkinson
Summary of outcome/Main issues raised:	No comments have been received at the time of submission.

Pre-application consultation with LPA

Date of written offer of pre-application consultation:	04/02/2013
Was there pre-application contact:	Yes
Date of pre-application contact:	20/02/2013
Name of contact:	Matthew Smith

Summary of outcome/Main issues raised:

Details on the initial proposal were sent to the LPA prior to the submission of the planning application. Matthew Smith responded requesting further details in terms of exact location and design. Final detailed drawings were sent to Mathew Smith on 28/2/2013

Ten Commitments Consultation

Rating of Site under Traffic Light Model:	Green		
Prior to the submission of this application the applicant initiate pre-consultation discussions with the local planning authority. This provides an opportunity for the LPA to discuss development proposals and identify site specific issues.			
Summary of outcome/Main issues raised:			
Details on the initial proposal were sent to the LPA prior to the submission of the planning application. Matthew Smith responded requesting further details in terms of exact location and design. Final detailed drawings were sent to Mathew Smith on 28/2/2013			

School/College

Location of site in relation to school/college:
There are no schools in close proximity to the site.
Outline of consultation carried out with school/college:
N/A
Summary of outcome/Main issues raised:
N/A

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation (only required for an application for prior approval)

Will the structure be within 3km of an aerodrome or airfield?		No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?		No
Details of response:		
N/A		

Developer's Notice

Copy of Developer's Notice enclosed?	Yes
Date served:	06/03/2013

3. Proposed Development

The proposed site:

The existing site that the proposal is to replace is at 65097 Galglass Ltd in the Wombwell area of Barnsley. The Notice to Quit (NTQ) site is a 15m greenfield tower. The site is surrounded by new houses and thus has development potential which is hampered by the location of the mast. The search area is mainly residential with a railway station in the centre.

The proposed facility is located on a tarmac island on the north side of the junction between Hemingfield Road and the Hemingfield Road Roundabout. Immediately to the north of the site is a disused access road that is lined with dense banks of mature trees of approximately 6m in height. To the south of the site and in the centre of Hemingfield Road is a further tarmac island housing street lighting columns of up to approximately 8m in height. The proposed installation is situated approximately 15m to the north of an existing 7m high (approx.) street lighting column. Approximately 40m to the west of the site is a railway line that passes underneath Hemingfield Road and the A6195 with a pedestrian subway on the south side of Hemingfield Road passing underneath the A6195. The eastern border of the railway line is defined by a palisade fence (approx. 1.5m) with dense banks of mature trees of up to approximately 12m in height further to the west.

The proposed facility is a 17.5m high Everything Everywhere Phase 4 Tower that will provide new 3G coverage for both Orange and T-Mobile to the S73 area of Barnsley. The proposed Phase 4 Tower design has been selected to allow the facility to integrate with the existing street furniture, having similar vertical lines to the numerous 7m (approx.) & 8m (approx.) street lighting columns distributed around the area.

The site is extremely well shielded by dense tree coverage surrounding the northern arc of the Hemingfield Roundabout of up to approximately 12m in height with barriers on the bridge over the A6195 further enhancing this masking effect. The site has been carefully selected adjacent to a busy roundabout and railway so as to provide the required coverage for both operators in the S73 area whilst being as far away as possible from residential properties.

Everything Everywhere have specified a height of 17.5m for the Phase 4 tower as this is the minimum height that can provide the required coverage for both operators within one facility. There is an existing site adjacent to the railtrack land. This would however, need to be redeveloped into a 25m – 30m lattice mast due to its location in the dip and also to take the additional three operators (Orange / T Mobile) now known as Everything Everywhere and H3G. The proposed 17.5m slim lined monopole is the better planning / environmental option for the cell area.

Enclose map showing the cell centre and adjoining cells:

This can be emailed to the LPA on request

Type of Structure

Description:

Proposed 17.5m Phase 4 streetworks tower. Colour: Galvanised.

Proposed Flexi units within Fredo cabinet on roof. Dimensions: 900 x 800 x 1260 High.

Material: Steel. Colour: Grey. Proposed MK3 Link/AC cabinet on roof. Dimensions: 600 x 500 x 1240 High. Material: Steel. Colour: Grey. Proposed BTS3900A on 200 plinth on side by side roof. Dimensions: 2 No. 640 x 480 x 900 High. Material: Steel. Colour: Grey.

Overall Height: See Drawings

Height of existing building

See Drawings

Equipment Housing:

Length:

Width:

See Drawings

Height:

Materials

Tower/mast etc – type of material and external colour:

See Drawings

Equipment housing – type of material and external colour:

See Drawings

Reasons for choice of design:

Central Government attaches great importance to the design of the built environment and outlines this within Section 7 (para. 56) of the National Planning Policy Framework. It states "Good design is a key aspect of sustainable development, is indivisible from good planning, and should contribute positively to making places better for people".

The proposed installation is an Everything Everywhere Phase 4 Tower which will house both Orange and T-Mobile. The sharing of base stations between multiple operators is one of the key strategic policy principles contained within the NPPF

In keeping with the National Planning Policy Framework (NPPF). guidelines of using "high quality communications infrastructure", the proposed design has been selected to minimise visual impact upon the street scene by integrating with the existing street furniture, having similar vertical lines and overall appearance to the numerous street lighting columns (approx. 7m and 8m in height) distributed around the area.

4. Technical Information

ICNIRP Declaration attached

Yes

ICNIRP public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or

barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines.		
When determining compliance the emissions from all mobile phone network operators on the site are taken into account.		

Frequency:	2G: GSM 900 MHz or GSM 1800 MHz Band, 3G: 2100 MHz band – UMTS
Modulation characteristics ¹	GMSK for 2G Sites QPSK for 3G Sites
Power output (expressed in EIRP in dBW per carrier) In order to minimise interference within its own network and with other radio networks, (Everything Everywhere) operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision As part of (Everything Everywhere)'s network, the radio base station that is the subject of this application will be configured to operate in this way.	Maximum output of 32 dBW
Height of antenna (m above ground level)	See Drawings

5. Technical Justification

Reason(s) why site required
The National Planning Policy Framework clearly states that authorities should not question the need for the service, nor seek to prevent competition between operators. Notwithstanding this fact, the Applicant considers it to be important to explain the technical justification for the site and how the facility fits into the overall network. Notwithstanding this fact, the Applicant considers it to be important to explain the technical justification for the site and how the facility fits into the overall network. The site is required to provide new 2G and 3G coverage for Everything Everywhere in order to improve coverage in the S73 area of Barnsley. The cell search areas for 3G are extremely constrained with a typical cell radius of approximately 250m meaning that it would not be feasible to site the column outside of this locale.

¹ The modulation method employed in GSM is GMSK (Gaussian Minimum Shift Keying) which is a form of Phase modulation

The modulation method employed in UMTS is QPSK (Quad Phase Shift Keying) which is another form of Phase Modulation

Further detail regarding the general operation of the network can be found in the accompanying document entitled 'General Background Information on Radio Network Development for Planning Applications'. This information is provided to assist the local planning authority in understanding any technical constraints on the location of the proposed development.

6. Site Selection Process – alternative sites considered and not chosen

Discounted Options

In accordance with the sequential approach outlined in the National Planning Policy Framework (NPPF) following search criteria have been utilised. Firstly consideration is always given to sharing any existing telecommunication structures in the area, secondly consideration is then given to utilising any suitable existing structures or buildings and thirdly sites for freestanding ground based installations are investigated.

This sequential approach is outlined below:

- a) Mast and Site Sharing
- b) Existing Buildings Structures
- c) Ground Bases Installations

In compliance with its licence and the sequential approach outlined in the NPPF all attempts to utilise any existing telecommunication structures where they represent the optimum environmental solution have been employed. The Ofcom Site Finder mast register is always examined prior to the submission of an application.

Site Type	Site Name and Address	NGR	Reason for not choosing
	D1 – Wombwell Main Community Cricket club	438943, 402606	There is plenty of space for a greenfield site but location is very open and opposite houses so unlikely to receive planning support from the LPA.
	D2 – Wombwell Train Station	438784, 402468	There is no space in and around the train station. Unlikely to get support from LPA due to open space and proximity to houses.
	D3 – Kids Nursery	438923, 402294	Site provider (SP) has stated no interest in our proposals.
	D4 – Old Factory	438973, 402202	Site provider (SP) has stated no interest in our proposals.
	D5 – Wombwell Wood	438780, 402063	Not suitable due to tree clutter and lack of space.
	D6 – Hill Top	439166,	This location would be suitable for a

	Farm	401758	greenfield location however, the proposed site in this report is better. It provides better coverage into the cell centre and the SW installation will be preferred by the LPA as the ground here falls away and the tower would need to be 25m plus.
	D7 – Sir Georges Pub	439179, 402580	Limited space and SP not that interested.
	D8 – Wombwell Park	439508, 402395	Council Owned park considered not suitable as <i>children's playing area</i> and LPA would not support a site here as it is very open space.
	D9 – OLO – Network Rail GF	439024, 402164	Existing telecom GF site on Network Rail land. The monopole is 15m but would need to be redeveloped up to circa 25m due to the dip which is unlikely to be supported by the LPA as this site is very close to the new houses being built.
	D10 – Hillies Golf Club	435795, 402352	Council owned golf course which is outside the search area. This option is discounted as LPA unlikely to support application. Unlikely Radio would approve anyway. Option 1 in report is by far the best option.

If no alternative site options have been investigated, please explain why:

N/A

7. Additional Relevant Information

Background to the Proposal

This specific proposal forms part of an integral requirement for Everything Everywhere to expand their respective 3G telecommunications network across Barnsley specifically in this instance to enhance 2G and 3G coverage levels and network capacity within the S73 area.

This partnership has resulted in the development and production of an array of “dual user” structures and cabinets, which have the ability to accommodate both operator’s antenna systems and radio equipment.

Mobile phone base stations operate on a low power and accordingly base stations therefore need to be located in the areas they are required to serve. Increasingly, people are also using

their mobiles in their homes and this means we need to position base stations in, or close to, residential areas.

A further limiting factor is that the position has to be one that fits in with the existing network. Sites have to form a patchwork of coverage cells with each cell overlapping to a limited degree with the surrounding base stations to provide continuous network cover as users move from one cell to the other. However if this overlap is too great unacceptable interference is created between the two cells.

DEVELOPMENT PLAN POLICY.

Development plan considerations have a special significance in law. Section 54A of the Town and Country Planning Act 1990 (The Act), and re-iterated in Section 38 of the Planning and Compensation Act 2004, it is stated that:

"Where in making any determination under the Planning Acts regard is to be had to the Development Plan, determination shall be made in accordance with the Development Plan unless material considerations indicate otherwise."

NATIONAL PLANNING POLICY

PPG8 and PPS1 have been replaced by the National Planning Policy Framework (NPPF) (March 2012). This document condenses the advice outlined previously although the broad principles of promoting the expansion of electronic communication networks remain the same:

The Government remain committed to promoting telecommunications and place emphasis on the importance of telecommunications to the wider economy. The National Planning Policy Framework (NPPF) sets out the Government's planning policies for England and how these are expected to be applied at the Local level. It provides a framework within which local people and their accountable Councils can produce their own distinctive local and neighbourhood plans, which reflect the needs and priorities of their communities.

The purpose of the planning system is to contribute to the achievement of sustainable development. There are three dimensions of sustainable development, each of which give rise to the need for the planning systems to perform a number of roles including;

- Economic Role – contributing to building strong, responsive and competitive economy;
- Social Role – Supporting strong vibrant and healthy communities; and
- Environmental Role – Contributing to protecting and enhancing our natural, built and historic environment.

The NPPF contains at its core a presumption in favour of sustainable development which runs through both plan-making and decision-making processes.

Paragraph 19 states that "The Government is committed to ensuring that the planning system does everything it can to support sustainable economic growth. Planning should operate to encourage and not act as an impediment to sustainable growth. Therefore significant weight should be placed on the need to support economic growth through the planning system".

It continues in Paragraph 20 to confirm Central Government advice that "To help achieve economic growth, local planning authorities should plan proactively to meet the development needs of business and support an economy fit for the 21st century". The following paragraph states "Planning policies should recognise and seek to address potential barriers to investment, including a poor environment or any lack of infrastructure"

Section 4 of the NPPF (Paragraph 29) encourages the "smarter use of technologies" to reduce the need to travel and promote sustainable transport methods in accordance with the central sustainable development thread which travels through the Framework.

The most pertinent section of the NPPF to the proposed development is that contained within Section 5: Supporting High Quality Communications Infrastructure.

There is recognition from Central Government in Paragraph 42 that "Advanced, high quality communications infrastructure is essential for sustainable economic growth" which will in turn play a vital role in developing provisions within the local community of both facilities and services.

The proposed development accords with all these aspects of the NPPF in that it will provide both Orange and T-Mobile with new 2G and 3G coverage in the S73 area of Barnsley bringing a range of associated economic and technical benefits.

Paragraph 43 identifies the need to "keep the number of radio and telecommunications masts and the sites for such installations to a minimum consistent with the efficient operation of the network". In doing so, Central Government encourages the use of existing masts, buildings and other structures unless the need for a new site can be justified. Where such new sites are required, it is suggested that, where appropriate, equipment should be sympathetically designed and camouflaged.

In accordance with paragraph 43 the proposal is for a shared facility between Orange and T-Mobile. In terms of "use of existing masts" a detailed breakdown of discounted options, including investigating the option of sharing existing facilities, has been provided in section 6 of this application. Again in accordance with paragraph 43, the Phase 4 Tower design has been selected to allow the installation to integrate with the existing (approx. 7 & 8m) street lighting columns distributed around the site.

Paragraph 45 defines the evidence that should be supplied to justify the proposed development. This should include:

- "The outcome of consultations with organisations with an interest in the proposed development, in particular with the relevant body where a mast is to be installed near a school or college or within a statutory safeguarding zone surrounding an aerodrome or technical site; and
- for an addition to an existing mast or base station, a statement that self-certifies that the cumulative exposure, when operational, will not exceed International Commission on non-ionising radiation protection guidelines; or
- for a new mast or base station, evidence that the applicant has explored the possibility of erecting antennas on an existing building, mast or other structure and a statement

that self-certifies that, when operational, International Commission guidelines will be met."

In accordance with Paragraph 45 this application has been submitted with the relevant supporting documentation.

Confirmation that Local planning authorities must determine applications on planning grounds is also contained in Paragraph 46. In determining applications, it is the contention of Central Government that LPAs should not seek to prevent competition between different operators, question the need for the telecommunications system, or determine health safeguards if the proposal meets International Commission (ICNIRP) guidelines for public exposure.

Central Government attaches great importance to the design of the built environment and outlines this within Section 7 (para. 56). It states "Good design is a key aspect of sustainable development, is indivisible from good planning, and should contribute positively to making places better for people".

In accordance with Paragraph 46 this application has been submitted with the requisite ICNIRP certificate.

In respect to good design, decision making should aim to ensure that any proposal deemed appropriate would "function well and add to the overall quality of the area, not just for the short term but over the lifetime of the development" and "respond to local character and history, and reflect the identity of local surroundings and materials, while not preventing or discouraging appropriate innovation".

In determining planning applications "great weight should be given to outstanding or innovative designs which help raise the standard of design more generally in the area". Paragraph 63.

It is the intention of the NPPF that "Local planning authorities should not refuse planning permission for buildings or infrastructure which promote high levels of sustainability because of concerns about incompatibility with an existing townscape, if those concerns have been mitigated by good design (unless the concern relates to a designated heritage asset and the impact would cause material harm to the asset or its setting which is not outweighed by the proposal's economic, social and environmental benefits)". Paragraph 65.

Paragraph 66 clarifies that "Applicants will be expected to work closely with those directly affected by their proposals to evolve designs that take account of the views of the community. Proposals that can demonstrate this in developing the design of the new development should be looked on more favourably".

LOCAL PLAN POLICY

Telecommunications Policy ST5 (Barnsley Metropolitan Borough Council Unitary Development Plan) expired on 28th September 2007 due to repeating the national PPG8 guidelines which have now been superseded by the NPPF. In view of this situation, this area of the application relates to the analysis of NPPF policy outlined in the National Planning Policy section above.

Conclusion

As stated previously this is a replacement mast and not a new additional one in the area. The existing site that the proposal is to replace is at 65097 Galglass Ltd in the Wombwell area of Barnsley. The Notice to Quit (NTQ) site is a 15m greenfield tower.

The proposed site is extremely well shielded by dense tree coverage surrounding the northern arc of the Hemingfield Roundabout of up to approximately 12m in height with barriers on the bridge over the A6195 further enhancing this masking effect. The site has been carefully selected adjacent to a busy roundabout and railway so as to provide the required coverage for both operators in the S73 area whilst being as far away as possible from residential properties.

We consider that the development is compliant with the council's policy and that in accordance with Section 38 (6) of the Planning and Compensation Act 2004 permission should be granted for the installation.

We consider the development complies with both central government and local planning policy guidance where the underlying aim is to provide an efficient and competitive telecommunication system for the benefit of the community while minimising visual impact.

Taking into account the factors of technical constraints, available sites and planning constraints we consider that this site and design clearly represents the optimum environmental solution.

On the basis of a recognised need to expand and promote telecommunications networks across the region, it is considered that the proposal fully accords with the requirements of the National Planning Policy Framework and Barnsley Metropolitan Borough Council's Local Plan Policies.

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Signed:

Date:

08/03/2013

Position:

Planning Manager

Company:

WHP

(on behalf of above
operator)