

SUPPLEMENTARY INFORMATION FORM

1. Site Details

Site Name:	HAYES WAY EAST SW	Site Address:	HAYES WAY, PATCHWAY, BRISTOL, BS34 6PX
National Grid Reference:	NGR E: 360360 N: 181021		
Site Ref Number:	SGL12956	Site Type: ¹	Macro

2. Pre-Application Check List

Site Selection (for New Sites only)

Was a local planning authority mast register available to check for suitable sites by the operator or the local planning authority?	Yes	No
If no explain why: A physical search of the area was carried out.		
Was the industry site database checked for suitable sites by the operator?	Yes	No
If no explain why:		

Site Specific Pre-application consultation with local planning authority

Was there pre-application contact:	Yes
Date of pre-application contact:	19 th August 2020
Name of contact:	The Chief Planning Officer
Summary of outcome/Main issues raised: Pre-application correspondence was forwarded to Salford City Council by email on 19 th August 2020. The LPA acknowledged receipt but no further responses have been received to date.	

¹ Macro or Micro

Community Consultation

Rating of Site under Traffic Light Model:	Red	Amber	Green
Outline of consultation carried out: Pre-application correspondence was forwarded by email on 19 th August 2020 to the Charlton & Cribbs Ward - Councillors Brian Hopkinson, Sanjay Shambhu & Jo Buddharaju.			
Summary of outcome/main issues raised (include copies of relevant correspondence): No responses received to date.			

School/College

Location of site in relation to school/college (include name of school/college): N/A
Outline of consultation carried out with school/college (include evidence of consultation): N/A
Summary of outcome/main issues raised (include copies of main correspondence): 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?	Yes	No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?	Yes	No
Details of response: Southmead Hospital Helipad, Southmead Road, Bristol BS10 5NB has been notified of the proposal. No response has been received to date		

Developer's Notice

Copy of Developer's Notice enclosed?	Yes	No
Date served:	31 st March 2021	

3. Proposed Development

The proposed site:

The proposed development is required to provide new infill coverage for the H3G network (known as '3'). The site is primarily required to provide new 5G coverage and capacity to the area surrounding the site. It would also improve 4G coverage and capacity.

The proposed site is on the Northern side of Hayes Way, just west of the junction with Gloucester Rd. The location has been chosen for the nature of the area and due to the width of the pavement, which is able to accommodate a telecoms installation. There are commercial premises opposite and a large expanse of grass verge separating the installation from the houses to the north. This location is considered suitable for the installation and will benefit from the nature of the area – the proposed location is shown on the photograph below:



The search area is a mix of commercial/industrial and new build and established residential properties. As there were no more suitable locations for this type of installation noted (see discounted options section later in this document) this area was then investigated and given the nature of the surroundings was considered more suitable.

The development involves the installation of a 15 metre high monopole. The pole would support 6 no. antennas. The three uppermost antennas provide 5G coverage, and the lower set of 3 antennas would provide 4G coverage. The pole would also support 2 no. transmission dishes below the antennas. These are required to link the site into the wider network. Ancillary equipment cabinets are proposed at ground level adjacent to the pole.

Type of Structure (e.g. tower, mast, etc):		Monopole
Description: The installation of a 15 metre high monopole supporting 6 no. antennas and 2 no. transmission dishes, 4 no. equipment cabinets and development works ancillary thereto.		
Overall Height:		15 metres
Height of existing building (where applicable):		N/A
Equipment Housing:		
Commscope AC Transmission Cabinet:		0.6m x 0.5m x 1.585m
Ericsson 6130 Cabinet:		0.65m x 0.7m x 0.95m
Commscope Bowler Cabinet:		0.9m x 0.6m x 1.752m
Materials (as applicable):		
Tower/mast etc – type of material and external colour:	Steel with a grey finish.	
Equipment housing – type of material and external colour:	Steel with grey finish.	

Reasons for choice of design, making reference to pre-application response:	
<p>In designing the proposed installation, the applicant has sought to achieve a balance between technical requirements and minimising environmental impact as far as was practicable. It, however, must be acknowledged that technical constraints heavily influenced the design and limited the scope to alter the appearance of the site to a significant degree.</p> <p>There are three main elements to a radio base station; the cabin or cabinets which contain the equipment used to generate the radio signals, the supporting structure that holds the antennas in the air or fixes them to a building or structure and the antennas themselves, which emit the radio signals (along with any necessary amplifier or receiver units). Other elements necessary for the base station to function are the power source (meter cabinet or generator where a REC supply cannot be utilised), feeder cables that link the equipment housing to the antennas and the various support structures, grillages and fixings, often referred to in general terms as “development ancillary to” the base station.</p> <p>In all aspects of the design now put forward the smallest practical components have been utilised to ensure that the visual impact of the development is kept to the absolute minimum. The proposed development has two main elements, the monopole which would support the antennas, and the radio equipment cabinets located at ground level adjacent to the pole.</p> <p>A slim and unfussy design of support structure has been chosen to minimise impact on the surrounding area. The monopole design of support structure is considered suitable. The finish of the monopole and the equipment cabinets is proposed to be grey to resemble the surrounding street furniture. Whilst the proposed colour scheme is considered wholly appropriate for this site, the applicant would be willing to adhere to any colour scheme deemed more appropriate by the local authority.</p> <p>In terms of the height of the proposed structure, it is acknowledged it would be taller than the existing street furniture. This is necessary as the site is proposed to provide 5G services and 5G uses higher frequencies which do not propagate through material and potential obstructions as well as lower frequencies, thus there is a need to ensure that the antennas clear local clutter, buildings and trees in the area.</p>	

There are street furniture, road signs and traffic lights close to the site, which would provide a significant degree of screening and/or backdrop to the proposed development. The level of screening of the equipment will depend on the specific viewpoint, however, overall, the screening would greatly assist in minimising visual impact to an acceptable level.

It is considered the proposed equipment is appropriately located. It has been possible to devise a scheme which has a minimal visual impact on the surrounding area. The design would result in a less intrusive facility than other designs, therefore preserving the character and appearance of the area. It is further considered the proposal strikes an appropriate balance between operational and environmental considerations, and the impact of the development would be outweighed by the significant public benefit of the proposal.

4. Technical Information

	Yes	No
<p>International Commission on Non-Ionizing Radiation Protection Declaration attached (see below).</p> <p>International Commission on Non-Ionizing Radiation Protection 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.</p> <p>When determining compliance the emissions from all mobile phone network operators on or near to the site are taken into account.</p> <p>In order to minimise interference within its own network and with other radio networks, Hutchison 3G UK Ltd operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision.</p> <p>As part of Hutchison 3G UK Ltd's network, the radio base station that is the subject of this application will be configured to operate in this way.</p> <p>All operators of radio transmitters are under a legal obligation to operate those transmitters in accordance with the conditions of their licence. Operation of the transmitter in accordance with the conditions of the licence fulfils the legal obligations in respect of interference to other radio systems, other electrical equipment, instrumentation or air traffic systems. The conditions of the licence are mandated by Ofcom, an agency of national government, who are responsible for the regulation of the civilian radio spectrum. The remit of Ofcom also includes investigation and remedy of any reported significant interference.</p> <p>The telecommunications infrastructure the subject of this application accords with all relevant legislation and as such will not cause significant and irremediable interference with other electrical equipment, air traffic services or instrumentation operated in the national interest.</p>		

5. Technical Justification

Enclose predictive coverage plots if appropriate, e.g. to show coverage improvement. Proposals to improve capacity will not generally require coverage plots.

Reason(s) why site required e.g. coverage, upgrade, capacity

There is a requirement to upgrade the H3G network in the area to provide improved coverage and capacity, most notably in relation to 5G services, but also in relation to 4G services.

The first generation of services provided voice calls, the second generation (2G) allowed basic data such as texting and the third generation (3G) offered internet access and the development of apps. Since then the smart phone has developed further and the fourth generation has brought video and much faster data speeds allowing the integration of the smart phone into wider use.

The next generation of mobile telephony is 5G which brings greatly increasing data speeds. The advantages this presents range from near-instant downloads of HD films to connected cars, smart medical devices and smart cities. To bring this new technology H3G will need to provide a mix of upgrades to existing sites and the building of new sites. New sites will be needed for many reasons, including that the higher radio frequencies used for 5G do not travel as far as those frequencies currently in use leaving gaps in the network.

Although 5G will undoubtedly bring new opportunities and huge benefits to society, we cannot escape from the requirement that new structures, antennas and ancillary equipment will be needed. It has been acknowledged by Government that we must ensure that we have the infrastructure in place to deliver 5G across our major centres and transport networks. This is one of the many additional structures that will be needed to provide enhanced services.

The higher frequencies that 5G will use can provide more bandwidth and thus greater capacity but the signal will not travel as far as those of previous generations. The implications to the built environment will be that more infrastructure needs to be deployed, as in this case.

6. Site Selection Process

Alternative sites considered and not chosen (not generally required for **upgrades/alterations to existing sites** including redevelopment of an existing site to facilitate an upgrade or sharing with another operator)

Site Type	Site Name and address	National Grid Reference	Reason for not choosing site
SF	Gloucester Rd, Filton, BS34	360450 , 181080	The nominal location – immediately adjacent residential properties and discounted in favour of the proposed site.
SF	Gloucester Rd, Filton, BS34	360502 , 181184	Further north on Gloucester Rd adjacent the shops – the area to the west of the road is full of services with insufficient space for an installation and the area to the east is used for customer parking.
GF	Kwik Fit, Gloucester Rd, Filton, BS34 5JH	360480 , 181139	Space within the premises is at a premium with insufficient unutilised land for an installation
RT	Travelodge, Gloucester Rd, Filton, BS34 6PX	360404 , 180972	The Travelodge is only 3 storeys high and roof mounted antennas would not be high enough to provide coverage to the target area. A GF site was considered in the car park behind but this would need to be on the southern or eastern edges of the car park and was considered less preferable than the proposed option.
RT	Patchway Police Centre, Gloucester Rd, Filton, BS34	360519 , 181012	The Police Station is only 2 storeys high and a rooftop installation would not be high enough to provide coverage to the target area;
RT	Rolls Royce, Gloucester Rd, Filton, BS34	360619 , 180923	None of the buildings within the complex are tall enough to accommodate a rooftop installation and the car park to the west is too far from the nominal to allow coverage of the target area.
GF	Royal Mail Filton Sorting Office, Gloucester Rd, Filton, BS34 7ST	360346 , 180779	Too far away from the nominal for an installation her to provide coverage of the target area.

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

The map below shows a basic coverage map confirming the area where coverage does not meet service requirements. Areas shaded red or not shaded do not meet sufficient coverage levels. This particular coverage requirement is based on the annotation 'SGL12956'. There is limited scope to move far from the nominated position.



The 'cell centre' is based on Gloucester Rd, just north of the junction with Hayes Way (annotated by the pink dot), to the east of the application site, an entirely residential area with houses on both sides of the road. As with all 5G infill development this is an extremely constrained cell search area. Moving too far from the optimum cell centre will then potentially interfere with adjoining cells. Options are limited and the only viable solution that minimises amenity issues has been put forward.

The purpose for the mast is to provide coverage to the residential area close to which it is located. The site is proposed to provide 5G services and 5G uses higher frequencies which do not propagate through material and potential obstructions as well as lower frequencies, thus there is a need to ensure that the antennas clear local clutter, in particular the 3 storey buildings in the area. Similarly, 5G doesn't cover as large an area as lower frequencies and need to be located within the coverage area.

Additional relevant information (planning policy and material considerations):

VISUAL IMPACT AND APPEARANCE

Visual impact has been minimised as far as practicable. New 5G coverage, and enhanced 4G coverage, to the area can be achieved with only minimal harm to the surrounding area.

The location of the equipment ensures very limited harm to the area. Whilst it would be visible it is considered this impact would not be excessive. Along with the siting on the busy road, the minimal footprint of the site and the screening from the existing street furniture, would ensure impact is kept to an acceptable level and would act as either a screen or a backdrop depending on viewpoint. The pole has a slim and unfussy design, would have a grey finish and would assimilate successfully into its surroundings in this location. The ancillary equipment cabinets are also proposed to be grey in colour.

The site is at a good distance from residential properties, is adjacent an Hotel and commercia area on a busy road with other street furniture consisting of streetlights, road signs, telegraph poles and electricity cabinets. Although the monopole would be taller than the existing street scene installations, the afore mentioned benefits of this location would ensure impact on visual amenity is kept to an acceptable level.

It is considered that the proposal utilises the most suitable design available to meet coverage demands and to provide suitable coverage to the area. It is important to keep the impact of telecommunications development in the area to a minimum and it is considered this proposal achieves this. The benefits of the proposal also have to be considered. New 5G, and enhanced 4G coverage would be provided to the surrounding area for H3G from the development and it is considered the significant public benefits of the proposal outweigh the minimal impact on visual and residential amenity.

PLANNING POLICY

National Planning Policy Guidance

National Planning Policy Framework (2019) (NPPF)

The new National Planning Policy Framework came into force in July 2018 replacing the guidance published in March 2012. The guidance has subsequently been updated in February 2019. The NPPF sets out the Government's planning policies for England and how these should be applied.

Paragraph 7 of the NPPF states "*The purpose of the planning system is to contribute to the achievement of sustainable development*", and in paragraph 10 that "*at the heart of the Framework is a presumption in favour of sustainable development*". In order to achieve the sustainable development objective, the NPPF has identified 3 overarching objectives (paragraph 8):

"a) an economic objective – to help build a strong, responsive and competitive economy, by ensuring that sufficient land of the right types is available in the right places and at the right time to support growth, innovation and improved productivity; and by identifying and coordinating the provision of infrastructure;

b) a social objective – to support strong, vibrant and healthy communities, by ensuring that a sufficient number and range of homes can be provided to meet the needs of present and future generations; and by fostering a well-designed and safe built environment, with accessible services and open spaces that reflect current and future needs and support communities' health, social and cultural well-being; and

c) an environmental objective – to contribute to protecting and enhancing our natural, built and historic environment; including making effective use of land, helping to improve biodiversity, using natural resources prudently, minimising waste and pollution, and mitigating and adapting to climate change, including moving to a low carbon economy."

For **decision-taking** (paragraph 11) this means:

"c) approving development proposals that accord with an up-to-date development plan without delay; or

d) where there are no relevant development plan policies, or the policies which are most important for determining the application are out-of-date, granting permission unless:

- i. the application of policies in this Framework that protect areas or assets of particular importance provides a clear reason for refusing the development proposed; or*
- ii. any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in this Framework taken as a whole."*

Further to this, paragraph 38 states that *"Local planning authorities should approach decisions on proposed development in a positive and creative way. They should use the full range of planning tools available, including brownfield registers and permission in principle, and work proactively with applicants to secure developments that will improve the economic, social and environmental conditions of the area."*

The proposed development will enable the provision of enhanced mobile communications services to the surrounding area from a single monopole, providing improved services for 4G and 5G technologies, bringing about substantial public benefit both socially as well as the allowing for certain businesses to expand, adapt and thrive as well as access new markets. Reliable wireless technology also allows for home working, particularly important in the current climate, and the creation of the 'virtual office', thus reducing the need to travel and contributing to the sustainability agenda.

Government advice in recent years has been to promote and encourage communications services. Within his presentation to Parliament in July 2015 of the Government report "Fixing the Foundations: Creating a more prosperous nation" the Chancellor of the Exchequer reiterated the importance of a high-speed digital communication infrastructure. *"7.1 Reliable and high quality fixed and mobile broadband connections support growth in productivity, efficiency and labour force participation across the whole economy. They enable new and more efficient business processes, access to new markets and support flexible working and working from home."*

By reducing regulatory red tape and barriers to investment, the government will support the market to deliver the internationally competitive fixed and mobile digital communications infrastructure the UK's businesses need to thrive and grow, and which will enable the UK to remain at the forefront of the digital economy. The government is working with business so that the market can play the lead role in delivering against the ambitions set out in the Digital Communications Infrastructure Strategy, published in March, of near-universal 4G and ultrafast broadband coverage."

The NPPF (2019) directly addresses the need for enhanced wireless communication services, first mentioned in paragraph 20, which states that an LPA's strategic policies must make sufficient provision for:

*"b) infrastructure for transport, **telecommunications** (our emphasis), security, waste management, water supply, wastewater, flood risk and coastal change management, and the provision of minerals and energy (including heat)"*

Leading on from this, paragraph 112 states that *"Advanced, high quality and reliable communications infrastructure is essential for economic growth and social well-being. Planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technology (such as 5G) and full fibre broadband connections"*.

It should be noted that paragraph 116 states that “*Local planning authorities must determine applications on planning grounds only. They should not seek to prevent competition between different operators, question the need for an electronic communications system, or set health safeguards different from the International Commission guidelines for public exposure*”.

The proposal outlined within this document and the supporting enclosures, is in complete accordance with the guidance as set out in the National Planning Policy Framework.

Development Plan Policy

Section 70 of the Town and Country Planning Act 1990 as amended requires planning applications and appeals to be determined having regard to the provisions of the Development Plan and other material considerations, and section 38 of the Planning and Compulsory Purchase Act 2004 requires applications and appeals to be determined in accordance with the Development Plan unless material considerations indicate otherwise.

For the purposes of Section 70, the current adopted development plan for South Gloucestershire Council, relevant to the proposal, comprises the Core Strategy (2013) and the Policies, Sites and Places (PSP) Plan (2017). Most relevant to the proposed development is policy PSP36 of the Policies, Sites and Places (PSP) Plan, which deals specifically with Telecommunications Infrastructure. The policy is copied below for ease of reference:

“Development proposal(s) for new or upgraded telecommunications equipment and installations will be acceptable provided that:

- 1) they are sited, designed and landscaped in such a way as to minimise visual amenity or any other negative impact on the built, historic and natural environment, so as to achieve an acceptable balance between the technical needs of the operator and conservation of the environment;*
- 2) there is no reasonable possibility of sharing sites or facilities;*
- 3) there is no possibility of erecting antennae on an existing building or other structure; and*
- 4) the proposal(s) conforms to the international commission on non-ionising radiation protection (ICNIRP) guidelines, taking account, where appropriate, of the cumulative impact of equipment/installations on the mast/site.*

Where proposal(s) would have an adverse impact on the landscape, Sites of Special Scientific Interest, or on heritage or biodiversity assets, they will only be acceptable where they would make a significant contribution to the telecommunications network and there is no suitable alternative location outside these areas/sites that would meet the technical needs of the operator.”

In this case there are no existing installations within the area, and no buildings capable of use have been identified, therefore the sequential approach led to the search for a greenfield solution. A slim and unfussy design of pole is proposed to ensure it would not harm visual amenity or the character of the area. Although the site is relatively close to residential properties it is proposed on a busy main road and in an area where other items of street furniture would provide screening and prevent it from being an anomalous feature. There would be an impact on residential amenity, however this would be minimal and not sufficient to harm residential or visual amenity. The site is not within a conservation area or close to

listed buildings ensuring no detrimental impact on heritage assets. A certificate is included with the application documents confirming compliance with ICNIRP guidelines.

The proposal therefore complies with the above policies and no conflict with any other aspect of the plan has been identified.

Overall, it is considered the proposal complies with national policy. In terms of national policy, the proposal is sympathetically designed, it minimises the number of installations and has a high quality of design. It would significantly enhance the provision of local community facilities and services and would protect amenity.

Summary


National planning policy is to facilitate the growth of new and existing telecommunications systems, and operators have obligations to meet customer demands for improved quality of service. This development proposes improved coverage to the surrounding area for H3G.

A simple design solution is proposed to mitigate visual impact and prevent harm to the local environment. The minimal impact of the development would be outweighed by the significant public benefits of the provision of enhanced coverage to the area.

The proposed development is compliant with the relevant policies from the NPPF and Development Plan, as outlined within this supporting statement.

The proposal is fully compliant with ICNIRP guidelines and declaration of compliance has been provided.

Confirmation that submitted drawings have been checked for accuracy

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Signed:		Date:	6 th April 2021
Position:	Director	Company:	Sinclair Dalby Ltd
		(for and on behalf H3G UK Ltd)	