

SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	STAKES RD	Site Address:	HAVANT HANTS
NGR:	4568392,107744		PO7 5PL
Site Ref Number:	127918	Site Type: ¹	GF

2. Pre Application Check List

Site Selection

Was an LPA mast register used to check for suitable sites by the operator or the LPA?	Yes	No
If no explain why:		
Was the industry site database checked for suitable sites by the operator:	Yes	No
If no explain why:		

Annual roll out consultation with LPA

Date of last annual rollout information/submission:	Oct 2013
Name of Contact:	Daphney.haywood@havant.gov.uk
Summary of outcome/Main issues raised:	No major issues have been raised in respect of this particular installation.

Pre-application consultation with LPA

Date of written offer of pre-application consultation:	10/02/14	
Was there pre-application contact:	Yes	No
Date of pre-application contact:		
Name of contact:		
Summary of outcome/Main issues raised:		

¹ Macro or Micro

Ten Commitments Consultation

Rating of Site under Traffic Light Model:	Green	Amber	Red
Outline Consultation carried out: Planning Dept & Ward Councillors.			
Summary of outcome/Main issues raised: None raised at time of application.			

School/College

Location of site in relation to school/college None identified within 500m
Outline of consultation carried out with school/college n/a
Summary of outcome/Main issues raised:

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:		

Developer's Notice

Copy of Developer's Notice enclosed?	Yes	No
Date served:	21/02/14	

3. Proposed Development

The proposed site:
The existing 15m monopole with one cabinet is to be replaced with a 15m monopole and four cabinets (one existing, three new).
The site sits on a grass verge adjacent to a recreation ground.

Enclose map showing the cell centre and adjoining cells:
N/a

Type of Structure 15m Dual stack Jupiter Monopole	
Description: 15m monopole and four cabinets.	
Overall Height: 15m	
Height of existing building	Metres
Equipment Housing:	
Length:	1.3Metres
Width:	0.7Metres
Height:	1.45Metres
Materials	
Tower/mast etc – type of material and external colour:	Brown coated steel
Equipment housing – type of material and external colour:	Green coated steel

Reasons for choice of design:

Single monopole can accommodate two operators (O2 & Vodafone) dispensing with the need for additional mast nearby. Additional cabinets accommodate 2g, 3g and the latest 4g technology for both operators.

4. Technical Information

ICNIRP Declaration attached	Yes	No
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:	900 MHz band, GSM 1800 MHz band, UMTS 2100 MHz band.
Modulation characteristics ²	GMSK for 2G (GSM) antennas QPSK for 3G (UMTS) antennas.
Power output (expressed in EIRP in dBW per carrier)	32 dBW
In order to minimise interference within its own network and with other radio networks, Vodafone & O2 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 O2 & Vodafone's network, the radio base station that is the subject of this application will be configured to operate in this way. 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	

² The modulation method employed in 2G (GSM) is GMSK (Gaussian Minimum Shift Keying) which is a form of Phase modulation

The modulation method employed in 3G (UMTS) is QPSK (Quad Phase Shift Keying) which is another form of Phase Modulation

The modulation method employed in 4G (LTE) is 64 QAM (Quadrature Amplitude Modulation) which is another form of Phase Modulation

reported significant interference.	
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.	
Height of antenna (m above ground level)	15m to top

5. Technical Justification

Reason(s) why site required e.g. coverage, upgrade, capacity (map attached if required):
Vodafone has recently entered into an agreement with Telefonica pursuant to which the two companies plan to jointly operate and manage a "single network grid" across the UK. These arrangements will be overseen by Cornerstone Telecommunications Infrastructure Ltd (CTIL) which is a joint venture company owned by Telefónica and Vodafone. This agreement allows both organisations to pool their basic network infrastructure, while running two, independent, nationwide networks. This will maximise opportunities to consolidate the number of base stations and in turn significantly reduce the environmental impact of both existing and future network development. This particular installation has been identified as a "key" site which is to form part of the new 4G network development programme across the Fareham district, which will increase the efficiency, capacity and ever increasing technical capabilities of the mobile network and offer new high speed broadband 4G coverage. Further detail regarding the general operation of the network can be found in the accompanying document entitled 'General Background Information for Telecommunications Development'. 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 (Enclose map highlighting all alternatives that have been considered by the operator)

Site ³	Site Name and address	NGR	Reason for not choosing ⁴
			N/a

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

This proposal represents a relatively minor upgrade to an existing telecommunications installation so to further enhance its efficiency and technical capabilities. As such it was not considered appropriate to carry out a search for alternative options given the proposed alterations and additions are not considered to materially increase the visual impact of the existing installation.

Additional relevant information:

Siting:

The proposed upgrade works involve only minor changes to the appearance of the existing base station. These are existing base stations that have undergone the planning decision making process and therefore are deemed to be appropriate locations in terms of environmental and operations considerations (including sequential testing of previous options).

Any height increase would be needed where there was existing clutter, such as trees, as these acted to hinder radio propagation, as leaves absorb and buildings/ other obstacle block radio signals. Antennas therefore had to be above the tree canopy to work efficiently, otherwise there may be a loss of coverage and potential creation of an additional coverage 'hole'.

Visual appearance:

The application seeks consent to replace an existing structure with a street pole with a small increase in height and similar design. Once installed the replacement equipment will, due to its relatively minor changes, successfully assimilate into the existing street scene.

The small scale additional cabinets will not appear different from those commonly found along highway verges and although they will lead to a slight increase in highways clutter, they will act to provide a crucial element in the improvements to capacity and function for the base station.

Contact Details

Name: (Agent)	CAIP	Telephone:	01590 676776
Operator:	Vodafone	Fax no:	
Address:	Efford Park, Milford Rd Lymington Hants, SO41 0JD	Email Address:	phil.martin@caip.co.uk
Signed:	<i>P Martin</i>	Date:	26/02/14
Position:	Surveyor	Company:	CAIP

(on behalf of CTIL
and above operator)

³ ETS – Existing Telecomm site, ES – Existing Structure, RT – Roof Top, GF – Greenfield

⁴ SP – Site Provider, RD – Redevelopment Not Possible, T – Technical Difficulties, P – Planning, O – Other