APPLICATION NO:

TL/2002/7928

LOCATION:

Grundon Ltd Star Works Star Lane, Knowl Hill Reading.

APPLICANT:

Orange PCSL C/O Centac Ltd

PROPOSAL:

Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.

EARLIEST DATE FOR DECISION: **02/12/2002**

APPLICATION WILL HAVE EXPIRED ON: 13/12/2002

APPROVED

CASE OFFICER: **Heidi Lynch**

Obs i 3/12/02 SV

RAILEX Marbleboard

WOKINGHAM DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACTS

REFUSAL/APPROVAL OF PRIOR APPROVAL OF TELECOMMUNICATIONS NOTIFICATION

Dianne Perry
Centac Limited
Billesley Craft Centre
Iron Gate Farm
Upper Billesley
Stratford-upon-Avon
CV37 9RH

Notification No: TL/2002/7928

Parish: Wargrave

PROPOSAL: proposed erection of six dual band pole antennae and four 600mm microwave dishes on a delta headframe to an existing tower + installation of an equipment cabin.

LOCATION: Grundon Ltd Star Works, Star Lane, Knowl Hill.

1) The Wokingham District Council in pursuance of their powers under Part 24 of the Town and Country (General Permitted Development) (Amendment) Order 1998 **APPROVES** prior approval for the above stated telecommunications equipment.

T. G Watson
Development Control Manager

Date: 11|12|02

Application: TL/2002/7928 Assessment

The proposed antennae and dishes will be located on an existing telecommunications mast located within an industrial site. The proposed additions will not increase the height of the mast and will not have any further impact on the surrounding area than the existing mast. The industrial site already contains two high stacks that are higher than the existing mast. There are also many trees around the site that help to screen it. The closest residential properties are located over 100m away from the existing mast.

The proposed additional antennae, dishes and equipment cabin will therefore have no further impact on the surrounding area.

Recommendation: Approval

D E Watson 11/2/02

WORK SHEET FOR : Heidi Lynch

Application Number : TL/2002/7928

Applicant : Orange PCSL C/O Centac Ltd.

Location : Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.

Proposal : Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.

Site Notice Displayed ? : YES ✓ (D put up on 18/11/02) NO DATE

Date of Neighbour Notifications : .....

Date of Site Visit : .....

Date Registered : 01/11/2002

Earliest Date for Decision : 02/12/2002

Latest Consultation Date/Site Notice Expiry Date : 02/12/2002

This application will have expired on: 13/12/2002. You need to make a decision 1 day prior to this date for this application to count as determined in less than 8 weeks.

Consultation Responses :

Environ. Health - no objections

Planning Issues :

Green belt
ASLI
Archaeological site

no local plan

RECORD OF SITE VISIT

SITE ADDRESS: Grundon Ltd Star Works Star Lane Knowl Hill Reading.

APPLICATION NUMBER: TL/2002/7928

OFFICER: Heidi Lynch

DATE OF SITE VISIT: 13/11/02

1 SITE/STATUTORY NOTICE DISPLAYED ? put up on 18/11/02

2. DESCRIPTION OF SURROUNDINGS

Industrial site
2 high stacks

3. DESCRIPTION OF SITE/BUILDING

Industrial building + existing mast

4. RELATIONSHIP TO ADJOINING PROPERTIES

5. SITE CONSTRAINTS lots of vegetation and area.

TREES

ACCESS/PARKING

LEVELS

BOUNDARY TREATMENT

OTHERS

HL

FROM: Heidi Lynch

DATE: 11 November 2002

DELEGATED

12 DEC 2002

WARGRAVE PARISH CONSULTATION SHEET

Application Number: TL/2002/7928

Proposal: Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development..

Site Address: Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.

Applicant: Orange PCSL C/O Centac Ltd.

Your observations are required in respect of this application **by 02/12/2002** .

No objection to this mast sharing application

received after decision was made.

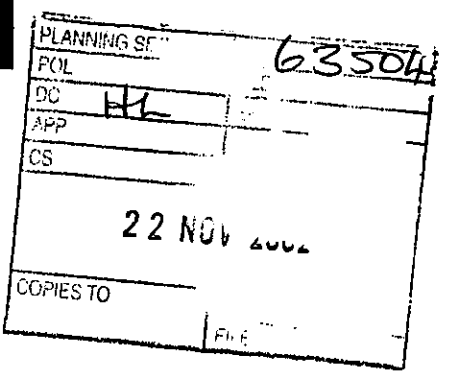
SIGNED: M. Quinn

DATE: 10-12-02

Clerk To Wargrave Parish/Town Council.

GRUNDON

ESTATES OFFICE



Wokingham District Council
PO Box 157
Council Offices
Shute End
Wokingham
Berkshire
RG40 1WH

21st November 2002

Dear Sir,

Re: **Star Lane, Knowl Hill – O2**

Please be advised that in our opinion, the applicant has no right to carry out any of the development described at the above site.

They have this far been engaged in negotiations regarding the site and this application appears to be premature.

Kind regards.

Yours faithfully,

Paul Wormald
Estates Surveyor

GRUNDON WASTE MANAGEMENT LTD
Grange Lane, Beenham, Reading, Berks. RG7 5PY.
Tel: 0118 9714040. Fax: 0118 9713097.
REGISTERED OFFICE: Goulds Grove, Ewelme, Wallingford, Oxon. OX10 6PJ. REGISTERED No. 4245965 (England)

The Estates Office, Grange Lane
Beenham, Reading
Berkshire, RG7 5PY
Phone: (0118) 9714040
Fax: (0118) 9713097

PLANNING SERVICES	HPT 623504
POL	TLS
DC HL	ENF
CS	
21 NOV 2002	
COPIES TO	

S. GRUNDON LTD

Fax

To:	Wokingham District Council	**From:**	Paul Wormald
Fax:	0118 978 9078	**Date:**	November 21, 2002
Phone:		**Pages:**	2 INCLUDING THIS PAGE
Re:	Star Lane, Knowl Hill – O2	**CC:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

•Comments:

21-NOV-2002 14:37 FROM:GRUNDON ESTATES 01189713097 TO:8011897890 78 P:1/2
01189713097

GRUNDON

ESTATES OFFICE

Wokingham District Council
PO Box 157
Council Offices
Shute End
Wokingham
Berkshire
RG40 1WH

21st November 2002

Dear Sir,

Re: **Star Lane, Knowl Hill – O2**

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Tel: 0118 9714040. Fax: 0118 9713097.
REGISTERED OFFICE: Goulds Grove, Ewelme, Wallingto [illegible] REGISTERED No. 4245965 (England)

01189713097
21-NOV-2002 14:37 FROM:GRUNDON ESTATES 01189713097 TO:01189789078 P:2/2

PLANNING APPLICATION COMMENTS SHEET FOR TL/2002/7928. (Case Officer:Heidi Lynch)

PLEASE NOTE THAT **ALL** COMMENTS SUBMITTED ARE OPEN TO PUBLIC VIEW, **THIS INCLUDES THE APPLICANT**.

WOKINGHAM UNITARY
Aiming for Excellence

THINGS WE **CAN** TAKE INTO CONSIDERATION WHEN DETERMINING A PLANNING APPLICATION;
DESIGN, APPEARANCE AND LAYOUT.
HIGHWAY SAFETY.
RESIDENTIAL AMENITY (loss of attractive features within the locality; e.g. parks or woodland).
LOSS OF LIGHT.
OVERSHADOWING/OVERLOOKING (loss of privacy).
NOISE, DISTURBANCE, SMELL etc ONCE THE DEVELOPMENT IS IN USE (e.g. from a proposed restaurant, takeaway, public house or industrial unit).

THINGS WE **CAN'T** TAKE INTO CONSIDERATION WHEN DETERMINING A PLANNING APPLICATION;
POTENTIAL HEALTH PROBLEMS THAT COULD BE CAUSED BY THE DEVELOPMENT
PRIVATE PROPERTY ISSUES, FOR EXAMPLE BOUNDARY AND ACCESS DISPUTES.
LOSS OF VIEW OVER OTHER LAND.
EFFECT ON PROPERTY VALUES.
POTENTIAL INCONVENIENCE, NOISE AND DISTURBANCE CAUSED BY CONSTRUCTION WORKS.
MATTERS COVERED BY OTHER LAWS (e.g. alcohol, betting, restaurant, music licensing).
MATTERS SUBJECT TO MARKET COMPETITION (we can't refuse an application on the basis that its approval would harm other commercial activity of a similar nature in the area).
THE SPECULATIVE USE OF A DEVELOPMENT AFTER IT HAS BEEN BUILT.
RADIO OR TELEVISION INTERFERENCE CAUSED BY A DEVELOPMENT.
SUBSIDENCE TO NEIGHBOURING PROPERTIES.

[illegible] 2002
20/11

COMMENTS ON APPLICATION: TL/2002/7928

YOUR NAME: MISS C.J. KEELEY

YOUR ADDRESS: (if these details are incorrect please amend)
OAKCROFT SANDHILLS
KNOWL HILL
READING
RG109XX

PLEASE RETURN YOUR COMPLETED FORM TO:

Environmental Services Department,
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR

I WISH TO (tick relevant box); OBJECT TO THE APPLICATION ☑
SUPPORT THE APPLICATION ☐ COMMENT ON THE APPLICATION ☐

Comments:
WE HAVE ENOUGH IN BALANCE IN OUR ENVIRONMENT. PLEASE NO MORE.

Continue over the page if more room required

PLANNING APPLICATION COMMENTS SHEET
FOR TL/2002/7928. (Case Officer:Heidi Lynch)

PLEASE NOTE THAT **ALL** COMMENTS SUBMITTED ARE OPEN TO PUBLIC VIEW, **THIS INCLUDES THE APPLICANT**.

WOKINGHAM UNITARY
Aiming for Excellence

PLANNING SERVICES	
POL	
DC	
APP	
CS	

18 NOV 2002

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THINGS WE **CAN** TAKE INTO CONSIDERATION WHEN DETERMINING A PLANNING APPLICATION;
DESIGN, APPEARANCE AND LAYOUT.
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THE SPECULATIVE USE OF A DEVELOPMENT AFTER IT HAS BEEN BUILT.
RADIO OR TELEVISION INTERFERENCE CAUSED BY A DEVELOPMENT.
SUBSIDENCE TO NEIGHBOURING PROPERTIES.

COMMENTS ON APPLICATION: TL/2002/7928

YOUR NAME: P A Holt & R S Holt

YOUR ADDRESS: (if these details are incorrect please amend)
FAIRWAY STAR LANE
KNOWL HILL
READING
RG109XY

PLEASE RETURN YOUR COMPLETED FORM TO:

Environmental Services Department,
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR

I WISH TO (tick relevant box); OBJECT TO THE APPLICATION ☑
SUPPORT THE APPLICATION ☐ COMMENT ON THE APPLICATION ☑

Comments: A definite NO. We didn't want the mast. But big business won. They won again when they wanted another 20m metres a few months later. Now once again they are asking for microwave dishes etc. What comes next? Are we to become a satellite village in a green belt area. We are all ready alarmed by fireballs with the land fill and another major worry of thousands of lorries recycled on site. Can the council think of the people of Star Lane and our village. Don't let big business win again.

Continue over the page if more room required

PLANNING APPLICATION COMMENTS SHEET FOR TL/2002/7928. (Case Officer:Heidi Lynch)

PLEASE NOTE THAT **ALL** COMMENTS SUBMITTED ARE OPEN TO PUBLIC VIEW, **THIS INCLUDES THE APPLICANT.**

WOKINGHAM UNITARY
Aiming for Excellence

THINGS WE **CAN** TAKE INTO CONSIDERATION WHEN DETERMINING A PLANNING APPLICATION;
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THE SPECULATIVE USE OF A DEVELOPMENT AFTER IT HAS BEEN BUILT.
RADIO OR TELEVISION INTERFERENCE CAUSED BY A DEVELOPMENT.
SUBSIDENCE TO NEIGHBOURING PROPERTIES.

2 . NOV 2002

COMMENTS ON APPLICATION: TL/2002/7928

YOUR NAME: DAVINA SYMES

YOUR ADDRESS: (if these details are incorrect please amend)
CANHURST FARM
CANHURST LANE
KNOWL HILL
READING
RG109XT

PLEASE RETURN YOUR COMPLETED FORM TO:

Environmental Services Department,
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR

I WISH TO (tick relevant box); OBJECT TO THE APPLICATION ☑
SUPPORT THE APPLICATION ☐ COMMENT ON THE APPLICATION ☐

Comments:

Continue over the page if more room required

OBS

19 NOV 2002

V287u

Our Ref: pma.lf.personal.02

Your ref:

18th November 2002.

Wokingham Unitary
DX 33506
Wokingham

Dear Ms Lynch,

Re : Application Number TL/2002/~~7982~~ 7928
Grundon Ltd Star Works Star Lane Knowl Hill
Installation of Further Equipment on the Tower and Equipment Cabin
And Ancillary Development

As the owner of Springfield Cottage Star Lane I have received your notice in this connection and once again I lodge the most strenuous objection to this further development in Grundon Works particularly since almost every week one is reading further scientific evidence that bombarding people with microwaves from these Towers is damaging to health and increases the risk particularly in children of Cancer.

Since my property stands accordingly to the scientific evidence I have read at exactly the right distance from the antenna for the microwaves to hit the ground and hence my property I am seriously concerned on the health issue.

I have been constantly refused my extension to my property to provide a separate bedroom for one of my children and yet also in the green belt and conservation area a short distance away this environmental hazard is proposed to be increased.

I wish to lodge the most strongest objection to this and give notice to all concerned including the local authority that should any of my family develop any illness which can attributable on medical evidence to this bombardment from the Grundon Works I shall not hesitate to produce this warning letter and commence appropriate proceedings.

You can accordingly deduce that I most strenuously object to this proposed development.

My 12' x 12' extension to provide a bedroom for my child was repeatedly refused on the grounds principally of the environmental damage it would do in the green belt and conservation area when it would only have been seen from the refuse tip.

Mason-Apps Smallmans & Co.

SOLICITORS

4 Bridge Avenue
Maidenhead
Berkshire
SL6 1QY
Tel: 01628 636148 or 01628 635013
DX: 6401 Maidenhead
FAX 01628 624216

E-Mail: masonapps@compuserve.com

Principal:
P. W. MASON-APPS

Family LAWYERS

A MEMBER OF THE Solicitors Financial & Property Services COMPANY

This firm is regulated by the Law Society in the conduct of investment business

Car Park at Rear of Offices

In the meantime Grundons have been allowed to develop their massive refuse tip.

To a limited degree I can understand this since that is a specific exception to green belt policies where making use of old workings for land fill is concerned however the now approved recycling of fridges which received officer recommendation does not fall within that exception at all nor does equipment cabins and ancillary development for the benefit of commercial radio telephone organisations such as Orange amount to an appropriate exception to green belt policy.

I understand that due to European directives fridges is just the tip of the iceberg and it is likely to be televisions computers and other electrical equipment that will form an increasing bulk of recycling at the centre. I cannot understand why the Officer Recommendation for approval of that was given when Wokingham Bracknell and Reading have just entered into an agreement to set up (via PFI) a huge recycling centre which I believe will probably be sited in Reading (at a Thames Water site) and having just received Government clearance and a £39 million credit for its construction it should I believe be operational within 2 years. I believe the project has been named "Re 3". I must therefore ask why piecemeal development of recycling units in inappropriate locations is still going ahead?

Given that Star Lane will be handling environmentally hazardous recycling what consideration was given to the potential environmental impact on the surrounding residents and what consideration is now being given to the potential environmental impact of this increased microwave bombardment from the Grundon Works? Did the applicant for the fridges recycling and has the applicant on TL/2002/7982 produce appropriate environmental impact assessments? If not why not?

If Wokingham is driving a coach and horses through its own green belt policies when it suits them why is my tiny extension still being refused. My understanding is that local planning authorities must make consistent decisions and if it does not they are open to legal challenge.

Apart from lodging objection most strongly to this latest application I would like to have a meeting at some stage with the development control manager to discuss these matters generally and how they touch upon my home in particular.

Yours sincerely,

P W MASON-APPS

WOKINGHAM DISTRICT COUNCIL
ENVIRONMENTAL PROTECTION AND HOUSING

MEMORANDUM

To: Heidi Lynch
Development Control

Your Ref: TL/2002/7928

From: Tom Payne
Environmental Health

My Ref: 3686

Date. 14/11/02

PROPOSED INSTALLATION OF TELECOMMUNICATIONS MAST

GRUNDON STAR WORKS, STAR LANE, KNOWL HILL, READING

These proposals have been evaluated and I have no environmental health objections to planning consent but have the following comments to make in relation to this proposal:

There have been questions raised as to the possibility of adverse health effects from electromagnetic radiation from telecommunication base stations and their positioning in relation to residential development and, in particular schools.

The Chartered Institute of Environmental Healths current policy states that;

(a) despite a growing body of research, there is currently no convincing evidence that environmental exposure to electromagnetic fields (emf) generated by the transmission of electricity or mobile telephony is harmful to human health, including that of children;
(b) that there is no justification on health grounds for restricting the public use of land other than immediately around power and mobile telecommunications installations. Conversely, there is no justification for restricting the siting of such installations in proximity to other land uses:
(c) that public concerns about the effects of electromagnetic fields while in our current state of knowledge apparently without foundation, should nonetheless be recognised as genuine.
(d) The full effects of emfs on humans may not yet be realised and though it can never be conclusive, there remains a need for continuing, properly funded, independent research into the nature, extent and relevance of those effects and the consequent adequacy of prevailing exposure guidelines.

Should you have any queries please do not hesitate to contact me.

John Mullaney

J R MULLANEY
SENIOR ENVIRONMENTAL HEALTH OFFICER
ENVIRONMENTAL PROTECTION & HOUSING

01.NOV.2002 7928

CentaC

CENTAC
LIMITED
Billesley Craft Centre
Iron Gate Farm
Upper Billesley
Stratford-upon-Avon
CV37 9RH

Tel: 01789 414417
Fax: 01789 415539
www.centac-ltd.com

Telecoms:
Acquisition & Planning
Consultants,
Design & Project
Management

DIRECTORS:
Nicola Chapman
Colin Englefield

Charles Brightman
Grundon Waste Management Ltd
Grange Lane
Beenham
Reading
Berks
RG7 5PY

Contact Dianne Perry
Tel: 01789 414417
Mob: 07816 662235
Fax: 01789 415539
Date: 30-Oct-02
Our Ref 2555/DP
Your Ref:

Dear Sir,

O_2 (UK) Ltd and Orange PCS Ltd
PROPOSED DEVELOPMENT AT : Star Lane, Knowl Hill, Reading, Berkshire, RG10 9XT
Submission of Prior Approval

I write to formally advise you that, on behalf of O_2 (UK) Ltd and Orange PCS Ltd, I am submitting a Prior Notification under the General Permitted Development Order (as amended 2001) to Wokingham District Council.

This prior approval application seeks to install 6 No. Orange PCS Ltd dual band, plane polar antennae, 4 No. Orange PCS Ltd 600mm microwave dishes on a delta headframe to an existing O_2 UK Ltd (27.5 A.G.L.) tower (to accommodate the share requirements of Orange PCS Ltd) together with a ground based equipment cabin and ancillary development thereto.

Attached is the formal Developers Notice (GPDO Amended 2001, Part 24, Paragraph A.3 (1)), advising you that you have 21 days from serving this notice to comment to the planning section of Wokingham District Council if you so wish.

Should you require any additional information please do not hesitate to contact me.

Yours sincerely

Centac Ltd

Centac Ltd

Email: dianne.perry@centac-ltd.com
For and on behalf of Airwave mmO_2 UK Ltd and Orange PCS Ltd
Enc.

cc. Wokingham District Council

Registered Office:
11 Chapel Close
Welford on Avon
Stratford upon Avon
CV37 8QJ
Company Reg No. 4124632 England
VAT Reg No. 765 6026 18

GENERAL PERMITTED DEVELOPMENT ORDER (AMENDED 2001)
NOTICE UNDER PART 24 PARAGRAPH A.3,
PRIOR APPROVAL PROCEEDURES

Proposed Development:	**Star Lane, Knowl Hill, Reading, Berkshire, RG10 9XT**
I give notice that	**O_2 (UK) Ltd and Orange PCS Ltd**
Is applying to the:	**Wokingham District Council**
For planning permission to:	**Install 6 No. Orange PCS Ltd dual band, plane polar antennae, 4 No. Orange PCS Ltd 600mm microwave dishes on a delta headframe to an existing O_2 UK Ltd (27.5 A.G.L.) tower (to accommodate the share requirements of Orange PCS Ltd) together with a ground based equipment cabin and ancillary development thereto at the above address.**

Any **owner** or **tenant** of the land who wishes to make representations about this prior approval application should write to the Council at:

Wokingham District Council
PO Box 157
Council Offices
Shute End
Wokingham
Berkshire
RG40 1WH

by

21ST November 2002

Signed Centac Ltd.
(for Centac Ltd)

On behalf of **0_2 (UK) Ltd and Orange PCS Ltd**

Date 30 October 2002

01.NOV.2002 7923 7928

01 NOV 2002

CentaC

CENTAC
LIMITED
Billesley Craft Centre
Iron Gate Farm
Upper Billesley
Stratford-upon-Avon
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Tel: 01789 414417
Fax: 01789 415539
www.centac-ltd.com

Wokingham District Council
District Planning Officer
PO Box 157
Council Offices
Shute End
Wokingham
Berkshire
RG40 1WH

Contact Dianne Perry
Tel: 01789 414417
Mob: 07816 415539
Fax: 01789 415539
Date: 30 Oct. 02
Our Ref 2555/DP
Your Ref:

BY RECORDED DELIVERY

Dear Sirs,

NOTICE OF INTENTION TO INSTALL TELECOMMUNICATIONS APPARATUS PURSUANT TO THE TOWN AND COUNTRY PLANNING (GENERAL PERMITTED DEVELOPMENT) (AMENDMENT) (ENGLAND) ORDER 2001 (SCHEDULE 2 PART 24) AND THE LICENCE GRANTED TO AIRWAVE MMO_2 LIMITED AND ORANGE PCS LTD UNDER SECTION 7 OF THE TELECOMMUNICATIONS ACT 1984 AT STAR LANE, KNOWL HILL, READING, BERKSHIRE, RG10 9XT

Orange PCS Ltd hereby give notice as required under the terms of its Licence and makes an application for a determination with regard to details of siting and appearance pursuant to Part 24, Class A, Condition A.3 (3) of the Town and Country Planning (General Permitted Development) (Amendment) (England) Order 2001 in respect of the following development. We hereby apply for a determination as to whether prior approval will be required for the siting and appearance of this installation.

This application seeks to install 6 No. Orange PCS Ltd dual band, plane polar antennae and 4 No. Orange PCS Ltd 600mm microwave dishes to an existing O_2 UK Ltd (27.5 A.G.L.) tower (to accommodate the share requirements of Orange PCS Ltd) together with a ground based equipment cabin and ancillary development thereto.

Please find enclosed, completed description of development, planning justification, plans and supporting information in respect of the aforementioned site.

Telecoms:
Acquisition & Planning Consultants,
Design & Project Management

DIRECTORS:
Nicola Chapman
Colin Englefield

Registered Office:
11 Chapel Close
Welford on Avon
Stratford upon Avon
CV37 8QJ
Company Reg No. 4124632 England
VAT Reg No. 765 6026 18

CentaC

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The following information is submitted in support of this application:

- Fee cheque for the sum of £220 (Two hundred and twenty pounds)
- Completed Application Forms
- A written summary of the proposed development, and other relevant information
- A 1:1250 site location plan
- Plans illustrating the proposed installation – drawing numbers 2555/001, P/2555/002 and P/2555/003
- Copy of the Developers Notice as posted on 30 October 2002
- A signed declaration of conformity with ICNIRP public exposure guidelines (cumulative)
- Supplementary Information v1.0
- Coverage Plots
- Health & Safety Information

The application accords with the Telecommunications Prior Approval Procedures, Code of Best Practice March 1996.

To assist in your consideration of this matter, I provide the following information in support of this particular case.

Supporting Statement

The Application Site, Surroundings and Proposal

The application site at Star Lane is situated in a predominantly mixed use area to the east of Knowl Hill, Reading.

This application seeks to install 6 No. Orange PCS Ltd dual band, plane polar antennae and 4 No. Orange PCS Ltd 600mm microwave dishes to an existing O_2 UK Ltd (27.5 A.G.L.) tower (to accommodate the share requirements of Orange PCS Ltd) together with a ground based equipment cabin and ancillary development thereto.

The proposal forms part of the improvement of the Orange PCS Ltd network in the area. In line with Government guidance contained within PPG8: 'Telecommunications' (August 2001) with regard to the use of existing buildings and structures (Paragraph 21) for telecommunications development, this particular location has been chosen, as

CentaC

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CV37 9RH

Tel: 01789 414417
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Registered Office:
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Welford on Avon
Stratford upon Avon
CV37 8QJ
Company Reg No. 4124632 England
VAT Reg No. 765 6026 18

the most suitable existing structure within the immediate vicinity of the area requiring coverage.

Orange PCS Ltd has been licensed to provide a Cellular Network based upon the Global System for Mobile (GSM) standard and Universal Mobile Telecommunications (UMTS) within the United Kingdom. In order to facilitate this the Company has been conferred the status of a Public Telecommunications Code System Operator. GSM systems are designated as Public Telecommunications Systems under Section 9 of the Telecommunications Act 1984.

As a Public Telecommunications Code System Operator they have a contractual duty under that licence to provide a comprehensive service of phone coverage to the UK population. Due to the substantial growth of the number of mobile phone users, there are now some geographical areas where no telecommunications masts exist, which are unable to meet Orange PCS Ltd technical requirements. The area around Knowl Hill is one such location and it is of paramount importance for Orange PCS Ltd to be able to provide a comprehensive service throughout this particular locality and therefore the location of the proposal is not only justified, but essential.

Background

Orange PCS Ltd were awarded a Licence from the Department of Trade and Industry to develop and operate an advanced digital, personal communication network using high frequency, radio based technology. The Personal Communication Network (PCN) was launched in April 1994 and recent innovations and developments have incorporated an upgrade to 3G telecommunication systems, which is expected to commence from 2002 onwards.

The 3G system sometimes referred to as UMTS (Universal Mobile Telecommunications System), will follow on from the GSM digital (2nd Generation) networks. Third generation networks will offer high-resolution video and multi-media services including mobile office services, virtual banking and on-line billing, home shopping, video conferencing and Internet access. The proposed site at Star Lane is important to Orange PCS Ltd as it will form part of the integral network improvement planned for the launch of UMTS over the coming months.

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Management

DIRECTORS:
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Colin Englefield

National & Local Policy

PPG8 states that 'The Government's general policy on telecommunications is to facilitate the growth of new and existing systems. The Government is also fully committed to environmental objectives.....'

The following paragraphs taken from PPG8 are particularly relevant.

Paragraphs 1-6 set out the Government's commitment to modern telecommunications and the advantages of promoting businesses and alternative methods of work. Local Planning Authorities should not question the need for a service or seek to prevent competition between different operators.

Paragraphs 19 & 20 concern mast and site and states, "the Government attaches considerable importance to keeping the numbers of radio and telecommunications masts, and of the sites of such installations to a minimum, consistent with the efficient operation of the network."

Paragraph 24 & 25 concern the design of the proposal in seeking to arrive at the best solution for an individual site, authorities and operators should use sympathetic design and camouflage to minimise the impact of development on the environment. Particularly in designated areas, the aim should be for apparatus to blend into the landscape. The telecommunications industry is encouraged to continue to develop innovative design solutions, in terms not only of the structure of the masts and antennas but also the materials and colouring.

Paragraph 52 of the Annex to PPG8 states:

'In many cases, existing development plan policies are framed in terms of conventional buildings and land use, and may not be adequate to deal with telecommunications apparatus or other operational needs. Applications should not be refused on the basis of development plan policies which take insufficient account of growth and characteristics of modern telecommunications'.

In exercising their power to determine planning applications for telecommunications installations, local planning authorities should take into account the obligations on the code system operators to provide a

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telecommunication service, and the constraints on siting and appearance imposed by the nature of the technology and the telecommunications network.

Careful consideration has been given to both the siting and appearance in this case. It is therefore considered that the proposal would have a negligible impact on the visual amenities of the surrounding area.

Prior to selecting Star Lane a thorough search in the locality was undertaken. Sites have been considered in terms of their technical suitability to provide the required level of service and effect on visual amenity. The aim of site identification is to find technically the most efficient site, which has a minimum impact on visual amenity thereby not adversely affecting the skyline and surrounding views.

The proposed development will not have a significant adverse impact on the visual amenity of local residents given that the proposal forms an addition to an existing telecommunications structure.

Local Plan Policy

The Local Plan for the area is the Wokingham District Local Plan (Consolidated Document Highlighting Proposed Amendements: February 2000). Policy WIC14 refers to telecommunications development. As a site – share this application is in line with the requirements of this Policy, furthermore the impact of the proposal on wider panoramic views will be lessened by the mixed-use nature of the area. The proposed site is therefore the optimum site available

Health Considerations

As recommended by the report of the Independent Expert Group on Mobile Phones and accepted by the Government, Orange PCS Ltd supports the move to international radio frequency (RF) wave exposure guidelines for limiting exposure of the general public, as a 'precautionary approach'.

Orange PCS Ltd will operate Mobile Phone Base Stations in accordance with the International Commission of Non-Ionising Radiation Protection (ICNIRP) RF exposure guidelines as expressed in the European Union Council

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Recommendation of 12 July 1999 on the limitation of exposure of the general public to electric magnetic fields (0 Hz to 300 GHz) i.e. Orange PCS Ltd will comply with ICNIRP general exposure guidelines in areas where the public spend a significant amount of time, and National Radiological Protection Board (NRPB) all-people exposure guidelines in other areas.

As you are aware Orange PCS Ltd together with other mobile operators in the UK have signed up to the FEI's 'Ten Commitments', as a result a Traffic Light Model has been endorsed to rate sites and adopt more meaningful public consultation strategies. Under this model, this proposal has been rated GREEN. Should the local planning authority disagree with this rating, I would be grateful if you could advise me.

Site Need and Identification

New base station sites are usually required for one or more of the following reasons;

(1) **Coverage**

The licence granted to Orange PCS Ltd demands that strict coverage qualities are met. It is essential that the benefits of mobile phone telephones are available for all the population. The changing customer use of mobile phones also demands that coverage is available at home, in the workplace, while shopping, enjoying leisure activities or while on the move.

(2) **Quality**

In order to ensure coverage within buildings such as homes, shops, offices etc the radio signal has to be of sufficient strength to penetrate walls. In urban and suburban areas a dense network of base stations is therefore required some less than 1 km apart.

(3) **Capacity**

As the use of and demand for mobile phones has increased the number of sites required to provide network capacity has increased. Each cell or base station can only handle a finite number of calls so in areas of high use additional cells are required to meet demands on the network, and thus avoid existing cells going into congestion.

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Orange PCS Ltd provide an affordable, quality mobile telephone service utilising small Radio Base Stations. Each base station serves small geographical areas, overlapping with one another to give overall blanket coverage across the country. In this instance, the proposed development at Star Lane is to serve a catchment area of approx (0.5 to 2km) and will ensure upgraded local and 'on-street' coverage to Knowl Lane and the surrounding area.

With the majority of our Client's network being operational and fixed the potential locations for new sites are limited. There is a need to provide an efficient distribution of sites to avoid signals between sites using the same frequency and causing interference. The radio engineers produce plans that indicate the optimum site location (the cell centre) and its coverage area. Only a small degree of tolerance is acceptable to provide the coverage required, in order to avoid interference with adjoining cells. The radio parameters for any site can also be influenced by local topological factors or surrounding clutter such as trees or tall buildings.

In this instance the requirement for a base station at the above site is to deal with the issues of coverage, quality and capacity.

There are three coverage plots attached to this letter.

The coloured plot represents the strength of radio signals as they leave the antennas, and indicate any deficiencies or 'holes' in the coverage.

The dark area shows the weak signal coverage. In referring to the existing and proposed plot sheets it is evident that the proposed cell 2555 will reduce the weak signal coverage and limited capacity in the area.

These areas of unacceptable coverage are known as 'holes' and where there are holes in the coverage users to the system will experience the following:

i) In-building radio coverage will not be obtained

ii) When a customer attempts to join the network they will be unable to obtain a link to a base station. This is an important factor should a vehicle break down in the area, especially in regard to motorists travelling alone.

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iii) A customer passing through the area using a mobile telephone will be cut off, which is known as 'drop out'.

iv) A telephone user trying to contact a customer in the area will be unable to get through;

v) Emergency services will not be available. Increasingly mobile telephone are being used for 999 calls.

It is for these reasons that it is important to achieve a service of quality for mobile users. The main complaints received by mobile telephone operators about their service relate to the problems associated with dropped out calls and no service.

Our brief as consultants for Orange PCS Ltd is to survey the designated area to locate a suitable Radio Base Station site. When looking for sites, there are a number of important considerations that are taken into account.

These include:

1. **The radio implication of the site:** Radio signals are transmitted through the network by using fixed links at such high frequencies that necessitate an uninterrupted line of sight. To achieve this the installation must reach a sufficient height above the surrounding buildings and trees. The installation must also be in a position to provide good 'on-street' radio coverage to the target area.

2. **Land availability:** The site is dependant upon the landowners' willingness to see their property used for this purpose.

3. **Planning:** Every effort is made to ensure that the best site is chosen in relation to its planning characteristics, for instance, the effect on the amenity of the adjoining property, the availability of effective screening etc. However, this is clearly constrained by the technical parameters of the system and the land availability previously mentioned.

Conclusion

This application has regard to national and local planning guidance, licence obligations and technical considerations.

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In the opinion of our Client the proposed site at Star Lane is an appropriate site that meets the required criteria above. Therefore a balance has been achieved between the objectives of each and as such the application should be considered favourably.

We hope that the above information is sufficient for you to consider this application favourably, however, if you do have any queries or require any further information, please do not hesitate to contact Dianne Perry of this office on (01789) 414417.

Yours sincerely

Centac Ltd

Centac Limited
For and on behalf of mmO_2 UK Ltd and Orange PCS Ltd

Telecoms:
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Consultants,
Design & Project
Management

DIRECTORS:
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01.NOV.2002 7928

INFORMATION TO ACCOMPANY AN APPLICATION FOR PRIOR APPROVAL DETERMINATION UNDER PART 24 OF THE GPDO IN RESPECT OF PERMITTED DEVELOPMENT BY TELECOMMUNICATIONS CODE SYSTEM OPERATORS

1. PRE-APPLICATION CONSULTATION WITH LOCAL PLANNING AUTHORITY.

(I) Licence notification i.e. pre rollout of network

Name of LPA contact: **Unknown**

(ii) On sites in specific cell(s):
Name of LPA contact: **Ms Gibbons**

2A NAME AND ADDRESS OF APPLICANT.

Name: **O_2 UK Ltd**
1 BRUNEL WAY
SLOUGH
BERKSHIRE
CL1 1XL

2B AGENT'S NAME, ADDRESS AND CONTACT.

Name: **CENTAC LTD**

Address: **BILLESLEY CRAFT CENTRE, IRON GATE FARM, UPPER BILLESLEY, STRATFORD UPON AVON,**

Postcode: **CV37 9RH** Tel: **01789 414417**

Contact: **DIANNE PERRY**

2C LOCATION OF PROPOSAL.

Location: **STAR LANE, KNOWL HILL, READING, BERKSHIRE, RG10 9XT**

2D O.S.SHEET / GRID REFERENCE.

Grid reference of proposed development: **GRID REFERENCE: 481880, 179470**

3. PURPOSE OF DEVELOPMENT. (refer to supporting information attached)

AIRWAVE MMO2 LTD – REFER TO SUPPORTING STATEMENT

ORANGE PCS LTD - TO IMPROVE AND PROVIDE COVERAGE AND CAPACITY WITHIN THE KNOWL HILL AREA (SEE COVERAGE SHEET).

4. THE PROPOSED STRUCTURE. (Please find enclose site details as shown on drawing no. 2555/001 P/2555/002 and P/2555/003/

(i) Type of structure: **EXISTING LATTICE TOWER**
Overall height: **27.5 M A.G.L.**
Height of existing building: **N/A**

(ii) Equipment housing

REFER TO DRAWING NO. P/2555/003

(iii) Materials (as Applicable):tower/mast etc:-type of material & external colour

MAST – REFER TO DRAWING NO. P/2555/003
ANTENNAE – REFER TO DRAWING NO. P/2555/003

Equipment Housing: - type of material and external colour

EQUIPMENT CABINET – P/2555/003/A TO THE AGREEMENT OF THE LPA

(iv) Location of and distance to nearest residential or commercial property:

REFER TO DRAWING NO. 2555/001

5. DISTANCE FROM AIRFIELD OR AERODROME.
Please tick as appropriate

Will the structure be within 3 km of an aerodrome or airfield	YES	**NO√**
Has the Civil Aviation Authority or Secretary of State for Defence (as appropriate) been notified	**YES**	**NO√**

Signed: Centac Ltd .

CENTAC LTD
On behalf of Airwave mmO_2 Ltd and Orange PCS ltd

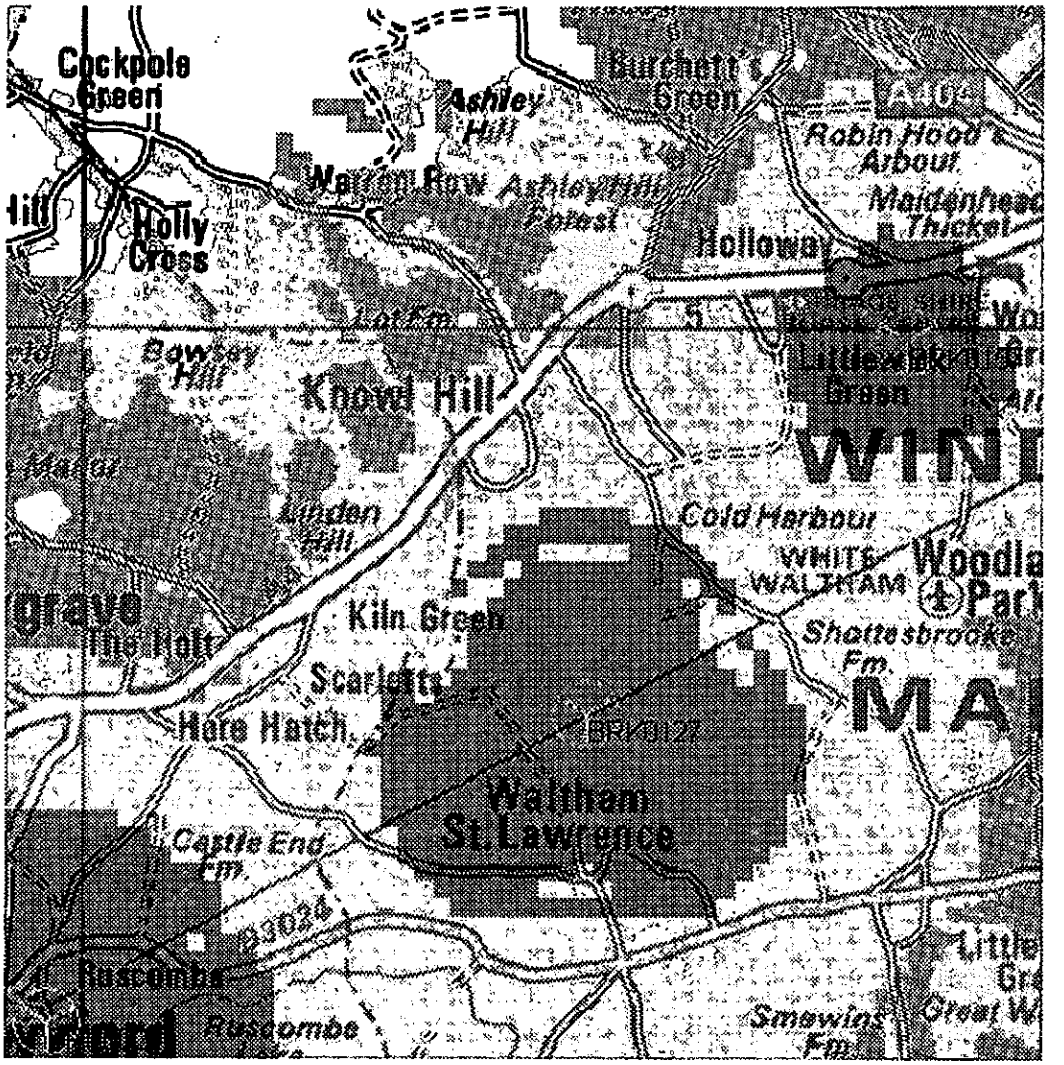
Date: **30-OCT-02**

THE FOLLOWING SCANNED IMAGES ARE DOCUMENTS OF BAD QUALITY OR ARE PHOTOCOPIES.



FOR THIS REASON THEY MAY APPEAR UNREADABLE ON SCREEN

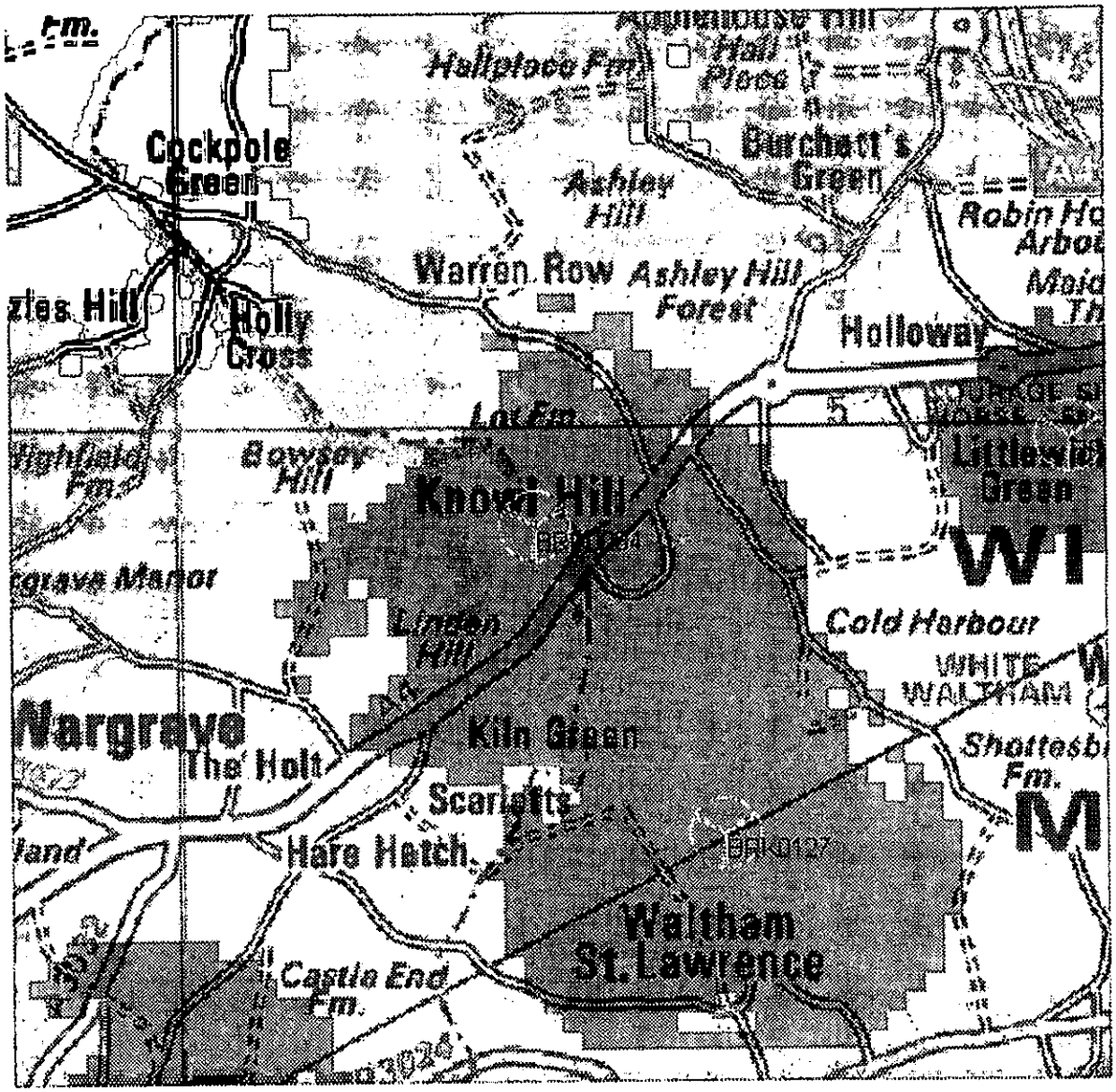
COVERAGE HOLE



Best Server
GSM-Default
- x> -65.0 dBm GSM Urban
- -65.0>=x>-75.0 dBm GSM Suburban
- -75.0>=x>-81.0 dBm GSM Transport
- -81.0>=x>-92.0 dBm GSM Rural

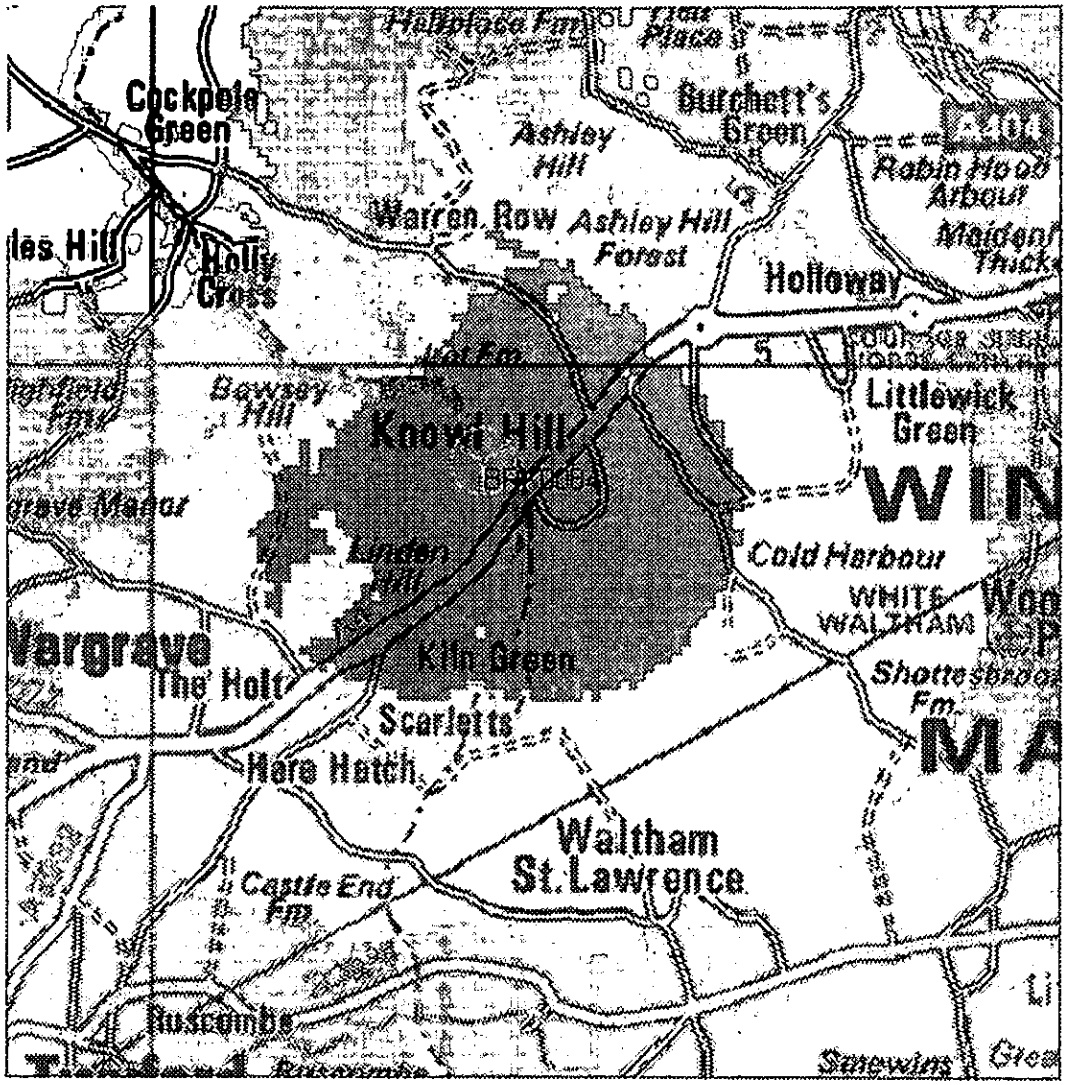
3G-Default

BRK84 CELLNET MAST WITH OTHERS



Best Server
GSM-Default
x> -65.0 dBm GSM Urban
-65.0>=x>-75.0 dBm GSM Suburban
-75.0>=x>-81.0 dBm GSM Transport
-81.0>=x>-92.0 dBm GSM Rural
3G-Default

BRK84 CELLNET MAST ONLY



Best Server
GSM-Default
- x> -65.0 dBm GSM Urban
- -65.0>=x>-75.0 dBm GSM Suburban
- -75.0>=x>-81.0 dBm GSM Transport
- -81.0>=x>-92.0 dBm GSM Rural

3G-Default

01.NOV.2002 7928

O2

Declaration of Conformity with ICNIRP Public Exposure Guidelines ("ICNIRP Declaration")

BT Cellnet
260 Bath Road
Slough
SL1 4DX

Certifies that the proposed equipment and installation as detailed in the attached planning / GPDO application at:

(Address)...Star Lane, Knowl Hill, Reading, Berkshire, RG10 9XT
.....
.....

is designed to be in full compliance with the requirements of the radio frequency (RF) public exposure guidelines of the International Commission on Non-Ionising Radiation Protection (ICNIRP), as expressed in EU Council recommendation of 12 July 1999 * "on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)".

* Reference: 1999/519/EC

Date: ...22 October 2002.....

Name: R GARETH ROBERTS

Position: SITE SHARE AREA MANAGER

SUPPLEMENTARY INFORMATION V1.0

1. Site details

Site Name	HAREHATCH	Site Address	Star Lane Knowl Hill Reading Berkshire RG10 9XT
NGR	481880, 179470		
Site Ref Number	2555	Site Type[1]	MACRO

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 **none available**		
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	**Unknown**
Name of contact	**N/A**
Summary of outcome/Main issues raised **N/A**	

Pre-application consultation with LPA

Date of written offer of pre-application consultation	**Unknown**	
Was there pre-application contact	**yes**	no
Date of pre-application contact	**14-05-02**	
Name of contact	**Ms Gibbons**	
Summary of outcome/Main issues raised **Established relevant Planning Policy**		

[1] Macro or micro

ENGLAND

3.0 Proposed Development

The proposed site
Existing 27.5m A.G.L. tower

Enclose map showing the cell centre and existing sites within the cell and adjoining cells
See attached coverage plots

Type of Structure (e.g. tower, mast, etc):	
Description **Addition to existing 27.5m A.G.L. tower**	
Overall Height	**27.50 m**
Height of existing building (where applicable)	**N/A**
Equipment Housing	
Length	**P/2555/002**
Width	**P/2555/002**
Height	**P/2555/002**
Materials (as applicable)	
Tower/mast etc – type of material and external colour	**As Existing**
Equipment housing – type of material and external colour	**P/2555/003**

Reasons for choice of design
Design determined by existing structure

ENGLAND

10 Commitments Consultation

Rating of Site under Traffic Light Model	**Green**	Amber	Red
Outline Consultation carried out **N/A**			
Summary of outcome/Main issues raised **N/A**			

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 (if relevant). (include evidence of consultation) **N/A**
Summary of outcome/Main issues raised **N/A**

Civil Aviation Authority/Secretary of State for the 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 **N/A**		

Developer's Notice
(only required for an application for prior approval)

Copy of Developer's Notice enclosed	**Yes**	No
Date served	**30/10/02**	

ENGLAND

4.0 Technical information

ICNIRP Declaration attached 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 cellular operators on the site are taken into account.	**Yes**	no

Frequency	**Refer to ICNIRP certificate dated 21/10/02**
Modulation characteristics[2]	**Refer to ICNIRP certificate dated 21/10/02**
Power output (expressed in EIRP in dBW per carrier) In order to minimise interference within its own network and with other radio networks, (NAME OF OPERATOR) operates its network in such a way that radio frequency power outputs are kept to the lowest levels commensurate with effective service provision. As part of (NAME OF OPERATOR)'s network, the radio base station that is the subject of this application will be configured to operate in this way.	**Refer to ICNIRP certificate dated 21/10/02**
Height of antenna (m above ground level)	**OPCS - 25.0m (Base A.G.L.)**

5.0 Technical Justification

Enclose predictive coverage plots.

Reason(s) why site required e.g. coverage, upgrade, capacity (map attached if required)
Coverage and capacity. Coverage plots attached. Refer to Supporting Statement.

[2] 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.

6.0 Site selection process – alternative sites considered and not chosen

Site[3]	Site Name and address	NGR	Reason for not choosing[4]
			LPA expressed preference for site share, given Government PPG.

If no alternative site options have been investigated, please explain why
Site share in accordance with PPG8: Paragraphs 19-23

[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

ENGLAND

Additional relevant information
N/A

Contact Details

Name	Dianne Perry	Telephone	(01789) 414417
Operator	O2 UK Ltd & Orange PCS Ltd	Fax no	(01789) 415539
Address	Billesley Craft Centre Upper Billesley Stratford-upon-Avon Warwickshire CV37 9RH	Email address	dianne.perry@centac-ltd.com
Signed	Centac Ltd	Date	30/10/02
Position	Planner	Company (on behalf of the above operator)	Centac Ltd

01 NOV 2002 7528

Ref: 16 v1

Site (Mast) Sharing

- Orange's preference is always to use existing structures to accommodate transmitter equipment, wherever possible, whether they are buildings or existing radio masts.
- Currently 60% of existing Orange sites are located on existing towers, masts or existing structures and within buildings, or accommodate other mobile operators' equipment.
- Orange will always share structures where:
  1. The location is right to meet our network radio engineering requirements
  2. The structure is tall and strong enough to support our antenna – in some cases redevelopment may be required.
  3. Planning permission or approval will be granted, despite the necessary increase in size
  4. There is a willing landowner
  5. It is the best environmental solution
- Planning Policy Guidance (PPG) 8 entitled Telecommunications states 'In order to limit visual intrusion the Government attaches considerable importance to keeping the numbers of radio and telecommunications masts to the minimum consistent with the efficient operation of the network. The sharing of masts and sites is strongly encouraged where that represents the optimum environmental solution in a particular case. Use should also be made of existing buildings and other structures to site new antennas'.
- Orange has initiated a number of measures to promote site sharing
  1. Orange has dedicated teams who process applications received from the other mobile telecommunication operators. The teams also make applications to other Operators and mast owners on behalf of Orange.
  2. Orange has access to a national database of existing radio masts including pylons.
  3. National agreements are in place with all major mast providers
  4. When Orange acquires a site we ensure that wherever possible there is adequate land available to accommodate up to two additional operators.
- Before Orange select a location for a transmitter site, the company undertakes an extensive programme of research. When an area is identified as requiring a transmitter site the national database is checked to ensure for any existing or proposed masts in the area. The area is also physically searched to identify any alternative structures such as buildings or water towers. A new mast is proposed only where it is not feasible or practical to share an existing mast.
- PPG8 states that 'local planning authorities may reasonably expect applicants to show evidence that they have explored the possibility of erecting antennas on an existing building, mast or other structure'.
- As part of it's planning application Orange submits details of all existing towers and structures considered in the cell area and if appropriate an explanation as to why they are not suitable.

- It is a common misconception that site sharing is the best solution in all circumstances. However, this is not necessarily the case as not all greenfield transmitter sites are suitable for mast sharing.

- PPG8 states that 'the sharing of masts and sites is strongly encouraged where that represents the optimum environmental solution in a particular case. Authorities will need to consider the cumulative impact upon the environment of additional antennas sharing a mast or masts sharing a site.'

- PPG8 goes on to say that in certain circumstances the shared use of an existing mast might necessitate an increase in the height or structural capacity, and therefore the visibility, of the mast. Depending on the characteristics of the location, site sharing as opposed to mast sharing might be more appropriate.

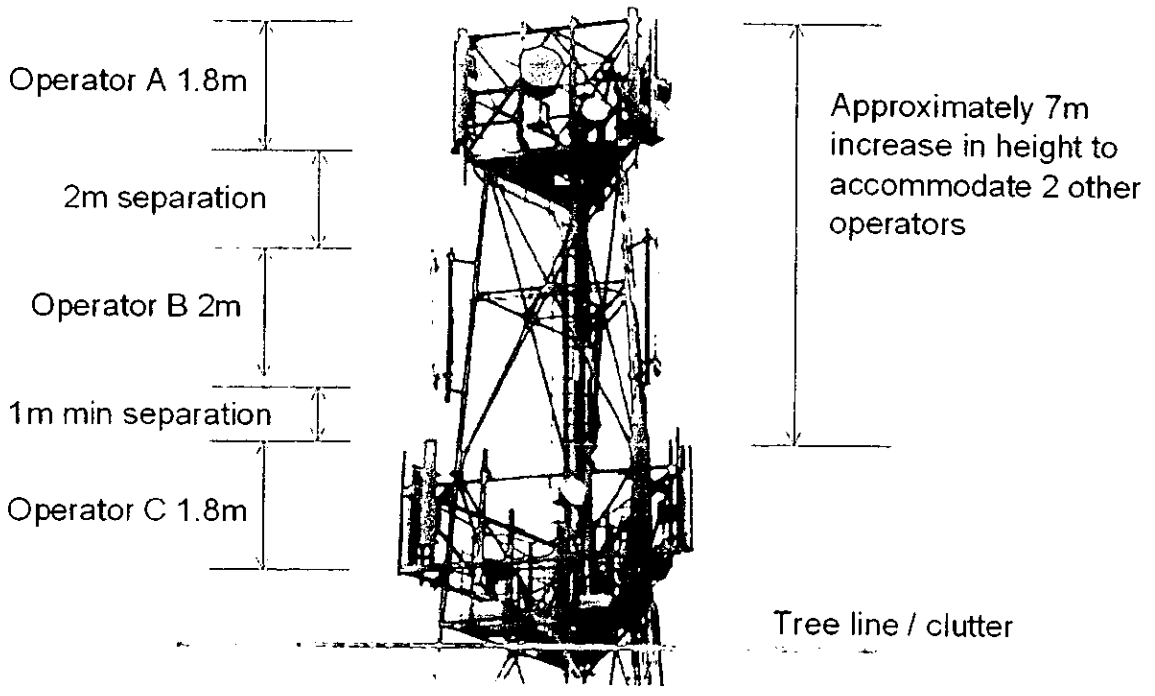
- It continues; 'A second installation located alongside or behind the principal installation may, for example, prove a more beneficial solution in environmental and planning terms. Local Planning Authorities and operators should seek to work together to find the optimum environmental and network solution on a case-by-case basis.'

- The visual below shows a shared tower with three operators present. Initially the tower accommodated Operator C only with its antennae approximately 1.8m above the tree line or clutter. The antenna generally need to be above the clutter line in order to allow the radio signals to pass to and from the handsets satisfactorily.

- Two further operators with a coverage deficiency in the area were advised by the Local Planning Authority to site their installations on this existing tower.

- However, the tower required redeveloping and extending in height to ensure all antennae were located above the tree line, the result being a higher environmental impact than two new masts co-located alongside each other.

- It is important to consider each location on its own merits in order to ascertain the most favourable solution.



Mobile technologies and health

What is Radio Frequency (RF) Radiation?

- RF is one form of a naturally occurring energy called Electromagnetic Radiation, which exists across a range of different 'frequencies' that together constitute the electromagnetic spectrum.

- At one end of the spectrum are the low frequencies used by television and radio broadcasters and at the other end are the very high frequencies of ultraviolet light, x-rays and gamma-rays. In the middle are the frequencies used by mobile telephony and satellite providers as well as infrared and visible light.

- Crucially the spectrum is clearly divided into 'ionising' and 'non-ionising' radiation. Only very high frequency ionising radiation (which is x-rays and gamma rays and not cellular frequencies) has sufficient energy to break chemical bonds and affect the DNA in living cells.

Thermal and Non-thermal effects of RF

- Thermal effects refer to the heating effect of non-ionising radiation, which occurs whenever a body absorbs radio energy. It is well established that the body can naturally cope with any mild temperature rises without any ill effects, but heating above a certain temperature can cause adverse effects.

- Therefore the International Commission for Non-Ionising Radiation Protection (ICNIRP) has established stringent guidelines (with multiple safety factors to account for population variances such as age, size and general fitness) to regulate emissions from all radio emitting devices, including those from mobile handsets and base stations. These guidelines ensure that no device can have power levels that could produce harmful thermal effects.

- There has been some anecdotal evidence of non-thermal effects. These are any other effects on the body as a result of the absorption of RF other than those caused by heating.

- Unfortunately, many studies which claim to have found such effects have been published by the media prior to scientific verification, i.e. they have not been published in scientific journals and have not been peer reviewed by other scientists. Very often other scientists do not obtain the same results when they attempt to replicate the experiments. As such there still remains no substantiated evidence of any harmful, non-thermal, effects arising from the absorption of RF.

- This publication of unverified material has caused some confusion and fear amongst the general public as to the safety of RF technology.

- Nevertheless, bodies such as the World Health Organisation (WHO) and Independent Expert Group on Mobile Phones (IEGMP or Stewart Group) have considered the results of these experiments, along with the vast body of verified work, and have made their expert recommendations accordingly (see below). The ICNIRP guidelines offer protection again all identified hazards resulting from exposure to RF with very large safety margins.

The United Kingdom Independent Expert Group on Mobile Phones (IEGMP)

- In 1999 the UK Government set up the IEGMP, to conduct an extensive review of existing scientific research into the possible health effects of mobile technology. Its report (commonly known as the Stewart Report) was published in May 2000 and stated:-

  "The balance of evidence does not suggest mobile phone technologies put the health of the population at risk"

- However, the Stewart Report recognised that there are gaps in knowledge sufficient to justify a precautionary approach. As a result it recommended the adoption of the ICNIRP guidelines for public

exposure, which were not previously in force in the UK, as they provide a higher level of protection for the public whilst still allowing the technology to function effectively.

- Other countries have also commissioned similar groups to look into the possible effects of mobile technology on health. These countries include Canada, France, and The Netherlands.

- The conclusions of these reports are broadly similar, namely that there is no evidence of adverse health effects at emission levels below ICNIRP guidelines. However, they concede that the 'gaps in knowledge' require investigation and more research needs to be carried out

Current state of research

- As a result of the Stewart report the UK Department of Health (DoH) along with the National Radiological Protection Board (NRPB) has undertaken a major research program to investigate the possible effects of mobile emissions. Included in this program are studies looking at effects on brain function; consequences of exposure to pulsed signals; epidemiological and human volunteer; emerging communication technologies (that is, 3G phones), including an epidemiological study of 3G users. Planned to report in 2004/5. Information on the program is available at http://www.mthr.org.uk

- In 1996, the WHO launched its International Electromagnetic Fields (EMF) Project, which is due to for completion in 2005. The Project is assessing possible "health and environmental effects of exposure to static and time varying electric and magnetic fields in the frequency range 0 – 300 GHz, with a view to the development of international guidelines on exposure limits".

- The British Medical Association (BMA) published an interim report (May 2001) of investigations into possible health effects of mobile phone use. They state '...there are no definite adverse health effects from mobile phones or their base stations...' however they do call for further research, saying 'Clearly there are large gaps in the knowledge that need to be addressed.' The report is available at http://www.bma.org.uk/ap.nsf/Content/Science+-+Mobile+phones+and+health%3A+an+interim+report+%28master%29

- The International Agency for Research into Cancer (IARC) is co-ordinating a multi-national case control study to identify whether there is a link between mobile phone use and cancer of the brain and salivary glands. There are 13 countries involved including the UK. It is due to report in 2004.

The next generation of mobile telephone technology, 3G

- With the introduction of the next generation of mobile technology, 3G, many will ask questions of the safety of this new system.

- One of the concerns surrounding the current mobile phone system comes from a theoretical idea that the 'pulsing' nature of the emissions could cause negative health problems beyond the heating effect (hence the inclusion of this topic in the DoH research agenda). 3G does not produce 'pulses' in its emissions, therefore this unproven theoretical idea is irrelevant to 3G and so it should be treated the same as any other radio emitter.

- The guidelines for the frequencies used by 3G are not as stringent as the current system. On Orange sites where both systems will be in operation the tighter guideline will be implemented as they provide for better protection.

Useful Sources of Further Information

- World Health Organisation (WHO)
  http://www.who.ch/emf
- International Commission on Non-Ionising Radiation Protection (ICNIRP)
  http://www.icnirp.de
- Federation of Electronic Industries (FEI)
  http://www.fei.org.uk
- National Radiological Protection Board (NRPB)
  http://www.nrpb.org.uk

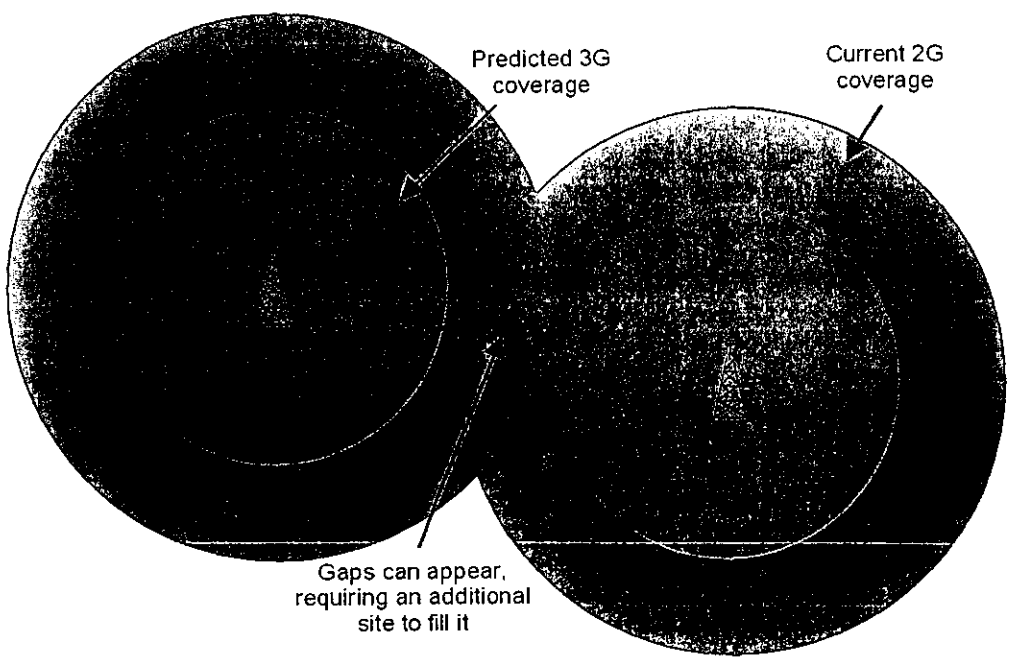
3G (Third Generation)

- Third Generation, commonly referred to as 3G, represents the next advance in mobile communications technology.
- The current digital mobile technology is referred to as Second Generation (2G) and the First Generation (1G) was the original analogue systems.
- Orange, along with the other 2G operators and an additional new entrant, has been granted a Licence to provide 3G services in the United Kingdom.
- Orange is currently building the infrastructure to support 3G services in readiness for the expected launch date in the UK in late 2002.

The need for 3G base stations (masts)

Upgrading existing Network

- The existing Orange network will be used as the base upon which the new 3G network will be built. Where possible, existing 2G sites will be upgraded to allow them to offer both 2G and 3G services from a single base station. This is intended to minimise the number of additional sites required.
- In most cases, this will involve swapping existing 2G antennas with new ones that are able to send and receive current 2G radio signals as well as the 3G signals. Equipment cabins will also be replaced.



Establishing 3G coverage

- The 3G system operates in another part of the electromagnetic spectrum, adjacent to the existing 2G part (1800 MHz) and uses slightly higher frequencies (2100MHz).
- The main impact on the Orange network of these different frequencies will be on geographical coverage. The radio waves transmitted at these higher frequencies that are used to deliver the 3G technology do not travel as far as 2G radio waves.
- This means that the area that a 3G base station is able to cover will be smaller than a 2G base station at the same location currently covers. In some areas this will mean that 'holes' may appear in the 3G network.
- Therefore, in these areas it will become necessary to build additional sites to fill these gaps so we can provide the same level of coverage for 3G as is currently available for 2G.

In – building coverage

- Another consideration is the need for good quality signal. As 3G will involve increased transfer of data (rather than traditional voice calls) it is important that there is no disruption to the signal as important data transfers could be interrupted. Consequently, it is vital to improve the signal over 2G levels.
- As mobile communications move beyond simple voice calls and more data services are developed, improved in-building coverage is required to allow many more people to access these services in the home and the office.

Meeting 3G capacity demand

- The growth of mobile phone usage has been exponential and there are more than 45 million users of mobile phones in England representing about 70% of the population. It is anticipated that 3G services will prove to be as popular as the current services available.
- As each base station can only handle a certain number of calls there will be a requirement for additional sites to support the demand. Some of the 3G services such as video phones use more capacity than voice calls further increasing the need for more capacity.

Building the 3G network

- It is difficult to estimate the number of new sites required for 3G services. Orange's preference is always to use existing structures to accommodate transmitter equipment, wherever possible, whether they are buildings or existing radio masts.
- Currently 60% of existing Orange sites are located on existing towers, masts or existing structures and within buildings, or accommodate other mobile operators' equipment.
- Under the terms of the Licence granted by the Government, Orange has an obligation to provide and maintain a 3G UMTS telecommunications service to an area where at least 80% of the population of the UK live by 31 December 2007.

ADDITIONAL NEIGHBOUR CONSULTATION SHEET

APPLICATION NUMBER: TL/2002/7928
CASE OFFICER: Heidi Lynch

ADDRESS OF ADDITIONAL NEIGHBOUR CONSULTATION	NUMBER OF DAYS FOR RESPONSE	DATE LETTER ISSUED (for Admin use)
Policy (Farah) ✓		11.11.02

Application Number : TL/2002/7928	Map No : 18 | 19.
Case Officer : HL	Site Area : 0.01
Valid Date : 1.11.02	Received Date: 01/11/2002

Level : Delegated Application

Description : Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.

Location : Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.

Parish : WA **Ward : WAR** 11.11.02 B.

Applicant : Orange PCSL C/O Centac Ltd.

Fee Required: £220 **Fee Received: £220** (12)

Additional: ..... or Refund: .....

Enforcement Section to be notified ☐ (tick if required)

Additional information required for validation;

REASON	NOTES	DATE REQ	DATE RECD
LOCATION PLANS			
BLOCK PLANS			
FORMS UNSIGNED			
S.66 MISSING/INCORRECT/ UNSIGNED			
ELEVATION PLANS			
FLOOR PLANS			
NO SCALE OR SCALE IS IMPERIAL			
ENCROACHMENT LETTER REQUIRED			
OTHER			

Is the site in a Conservation Area: ☐ Yes ☐ No I f "Yes" which one _____

Is the site a Listed Building: ☐ Yes ☐ No

Is a Statutory Advertisement required: ☐ Yes ☐ No

INTERNAL CONSULTATIONS 11.11.02

Building Control

Heritage (Harold Sanders)

Landscape

Trees

Environmental Health ✓

Housing

Leisure & Cultural Services

Public Rights of Way Officer

Property

Policy & Plans

Joint Strategic Planning Unit

Archaeological Officer (BABTIE)

Education

Social Services

Highways

EXTERNAL CONSULTATIONS

Adjacent DPA : _____

Adjacent Parish : _____

SEB

British Gas

Oil pipeline

Transco

Environment Agency

Railtrack

Police Arch Officer

HERITAGE BODIES

Victorian Society
The Georgian Group
Ancient Monuments Society
Council for British Arch
RCHME
NRPB (Telecommunications)
Sport England
Society for Proct' of Ancient Bldgs
English Heritage

OTHERS

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.....

.....

.....

NEIGHBOURS

See map.

.....

.....

Organisation_Name	Building_Name	address1	Old_Postcode
	FOUR GABLES	FOUR GABLESSANDHILLSREADING	RG109XX
	HIGHBANK	HIGHBANKCANHURST LANEREADING	RG109XT
	COOKS HILL COTTAGE	COOKS HILL COTTAGEBATH ROADREADING	RG109UP
	WATERLOO COTTAGE	WATERLOO COTTAGEBATH ROADREADING	RG109UP
BIRD IN HAND			RG109UP
WOODLANDS FARM			RG109UP
	LAUREL COTTAGE	LAUREL COTTAGEBATH ROADREADING	RG109UR
	MYRTLE COTTAGE	MYRTLE COTTAGEBATH ROADREADING	RG109UR
	CANHURST COTTAGE	CANHURST COTTAGECANHURST LANEREADING	RG109XT
CANHURST FARM			RG109XT
	CANHURST LODGE	CANHURST LODGECANHURST LANEREADING	RG109XT
	BOWSEY COTTAGE	BOWSEY COTTAGECANHURST LANEREADING	RG109XT
	THE LOOSE BOX	THE LOOSE BOXCANHURST LANEREADING	RG109XT
	GREYTILES	GREYTILESCANHURST LANEREADING	RG109XU
	THORNWOOD	THORNWOODCANHURST LANEREADING	RG109XU
	HILLCREST	HILLCRESTSANDHILLSREADING	RG109XX
	BRINSMEAD	BRINSMEADSANDHILLSREADING	RG109XX
	COBBLERS COTTAGE	COBBLERS COTTAGESANDHILLSREADING	RG109XX
	DORMERS	DORMERSSANDHILLSREADING	RG109XX
	HIGH VIEW	HIGH VIEWSANDHILLSREADING	RG109XX
	HOMELEIGH	HOMELEIGHSANDHILLSREADING	RG109XX
	LITTLE OAKS	LITTLE OAKSSANDHILLSREADING	RG109XX
	OAKCROFT	OAKCROFTSANDHILLSREADING	RG109XX
	ORCHARD LEIGH	ORCHARD LEIGHSANDHILLSREADING	RG109XX
	YEWCOTT	YEWCOTTSANDHILLSREADING	RG109XX
	HEDGEROWS	HEDGEROWSSTAR LANEREADING	RG109XY
	HILL VIEW	HILL VIEWSTAR LANEREADING	RG109XY
	MEADOW VIEW	MEADOW VIEWSTAR LANEREADING	RG109XY
	OAKFIELD	OAKFIELDSTAR LANEREADING	RG109XY
	SPRINGHILL	SPRINGHILLSTAR LANEREADING	RG109XY
	SPRINGFIELD COTTAGE	SPRINGFIELD COTTAGESTAR LANEREADING	RG109XY
	THE JAYS	THE JAYSSTAR LANEREADING	RG109XY
GRUNDON QUARRY			RG109XY
GRUNDON LTD	STAR WORKS	STAR WORKSSTAR LANEREADING	RG109XY
	SEVEN STARS	SEVEN STARSBATH ROADREADING	RG109UR
	LITTLE ORCHARD	LITTLE ORCHARDCANHURST LANEREADING	RG109XT
	BRIARDENE	BRIARDENESANDHILLSREADING	RG109XX
	ASHLEY VIEW	ASHLEY VIEWSTAR LANEREADING	RG109XY
	THE BUNGALOW	THE BUNGALOWSTAR LANEREADING	RG109XY
	CONIFERS	CONIFERSSTAR LANEREADING	RG109XY
	FAIRWAY	FAIRWAYSTAR LANEREADING	RG109XY
	MAPLELEA	MAPLELEASTAR LANEREADING	RG109XY
	ORCHARD SPRINGS	ORCHARD SPRINGSSTAR LANEREADING	RG109XY
	ROENDA	ROENDASTAR LANEREADING	RG109XY
	WHITE HOUSE	WHITE HOUSESTAR LANEREADING	RG109XY
	WOODLANDS PLACE	WOODLANDS PLACESTAR LANEREADING	RG109XY
	KILOWNA	KILOWNASTAR LANEREADING	RG109XY
	SPRINGFIELD HALL	SPRINGFIELD HALLBATH ROADREADING	RG109UR
KNOWL HILL GARAGE			RG109UP
	BRAMBLE COTTAGE	BRAMBLE COTTAGESTAR LANEREADING	RG109XY
	SUNNYLEIGH	SUNNYLEIGHSANDHILLSREADING	RG109XX

**********FILE COPY**********

Tel: (0118) 974 6482

Date: 11 November 2002

My ref: TL/2002/7928

WOKINGHAM UNITARY
Aiming for Excellence

Councillor Haacke
C/O Wokingham District Council

Environmental Services Department
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR
Tel: (0118) 974 6000
Fax: (0118) 974 6484
Minicom No: (0118) 974 6991
DX: 33506 – Wokingham

Dear Councillor

Application Number: TL/2002/7928
Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.
Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.

I write to let you know that the above mentioned application has been received.

At this stage a recommendation has not yet been made. This form should only be returned if it is likely that you might wish for the application to be listed for consideration by the Development Control Committee. This form must be received no later than 28 days from the date of this letter.

If you have concerns about the proposals it may be possible for these to be addressed during the consideration of the application. In these circumstances it would be helpful if you could discuss these with the case officer **Heidi Lynch** on **(0118) 974 6482** in the first instance.

Yours sincerely
Trevor Watson
Development Control Manager

LISTING FORM
Case officer: **Heidi Lynch** Application Number: **TL/2002/7928**
Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.
Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.
I wish this application to be listed should the officers recommendation be for: GRANT/REFUSAL and my reasons are:

_____

_____

Should the officers recommendation be in accordance with my views I am happy for the application to be determined under delegated powers. YES/NO

Signed: _____ Date: _____

Councillor Haacke

**********FILE COPY**********

**********FILE COPY**********

Tel: (0118) 974 6482

Date: 11 November 2002

My ref: TL/2002/7928

WOKINGHAM UNITARY
Aiming for Excellence

Councillor Browne
The Old Coach House
Remenham Hill
Remenham
Berks
RG9 3EP

Environmental Services Department
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR
Tel: (0118) 974 6000
Fax: (0118) 974 6484
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Trevor Watson
Development Control Manager

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_____

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Signed: _____ Date: _____

Councillor Browne

**********FILE COPY**********

Received by Wokingham District Council

Application No: TL/2002/7928

Proposal:
Proposed installation of 6 dual band antennae and 4 x 600mm microwave dishes on existing tower and equipment cabin and ancillary development.

Location:
Grundon Ltd Star Works, Star Lane, Knowl Hill, Reading.

The application is available for inspection at Wokingham District Council's offices during the following times:

PLANNING DEPARTMENT, SHUTE END, WOKINGHAM TEL (0118) 974 6428
8.30 - 5.00 Monday - Thursday & 8.30 - 4.00 Friday

WOODLEY LIBRARY HEADLEY ROAD WOODLEY 9.30am - 7.00pm Mon, Thurs & Fri. 9.30am - 5.00pm Tues, 9.30am - 1.00pm Saturday and 1.00pm - 4.00pm Sunday. Library closed all day Wednesday. If you intend to view this application at Woodley Library please allow 4 days from the date of this letter for delivery of plans and remember to quote application number TL/2002/7928 to enable the library staff to locate the correct information.

Comments should be sent in writing QUOTING THE APPLICATION NUMBER to the Case Officer Heidi Lynch P.O. Box 157 Council Offices, Shute End, Wokingham Berkshire, RG40 1WR to arrive on or before 02/12/2002. Written comments submitted will become available for public inspection.

In view of the very large number of planning applications and letters of comment received, it will not be possible for an individual reply to be issued to observations made. However any comments will be taken into account when the application is determined and you will be notified of the decision.

Trevor Watson
Development Control Manager

11 November 2002

1933
(5) STAR WORKS

ADDRESS STAR LANE PARISH WARGRAVE

PLOT No. KNOWL HILL ORD. SHEET No. SU.8179 18/19 8279

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
98/68617/F	Orange PCS Ltd	Erect 6.5 high Tele. Mast	31.12.98	C/A
98/68618/F	"	"	31.12.98	C/A
99/68884/D	W/D 20/7/99.			
C/40429/14	S GRUNDON	D.to.C.-COND-14 of 40429 for Appl of Opening hours	22.10.99	REF
C/40429/25	"	D.to.C.-COND 25-40429 for Appl of noise mon. report	7.12.99	APP
C/40429/14A	"	D.to.C.-COND 14 of 40429 revised opening hours.	10.12.99	APP
F/2000/2856.	"	Erect of landfill gas flare	12.04.01	C/A
VAR/2001/3833	"	Var to cond 1&2 of 65263 to allow revised cell boundaries	12.9.01	C/A

MINISTRY DECISION

SPECIAL ORDERS

1933

(3) STAR WORKS

ADDRESS STAR LANE PARISH WARGRAVE E

PLOT No. ORD. SHEET No. SU 8179 (18-19) 8279

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
42286	IBSTOCK WARNER LTD.	DET. OF CONDITIONS TO WHICH INTERIM DEV. ORDER (100) (OLD MINING PERMISSION 1947) IS TO BE SUBJECT. LAND TO WEST		OBS. AGREED
43432	INVALID			
43608	S. GRUNDON (WASTE) LTD.	H. OFFICE TO RES. ACCOMM.	6.1.95	3 yrs.
43874	"	STOCKPILING QUARRY WASTE	7.4.95	CEASE 31.12.97 RESTORE 31.12.98
~~94/60047/F~~				
44446	"	SECURITY COMPOUND/STORES/ VEHICLE PARK	~~28.7.97~~ 29.5.97	C/A
~~95/60535/F~~				
44501	GRUNDON	WIDEN HAUL ROAD / RE-LOC. FENCE RE COND 21 ON 40429	13.9.95	C/A
~~95/60590/F~~				

MINISTRY DECISION

SPECIAL ORDERS

1933

(4) STAR WORKS

ADDRESS STAR LANE PARISH WARGRAVE E

PLOT No. KNOWL HILL ORD. SHEET No. SU 8179 18/19 8279

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
45076 95/61169/F	GRUNDON	EXTEND PERIOD FOR SUBMISSION OF MONITORING & CONTROL OF LEACHATE & LANDFILL GAS SCHEME COND 4 ON 40429 FROM 5.9.95 TO 5.9.96	7.3.96	
COND. 25 ON 40429 NOISE MONITORING			23.8.96	APP
96/64328/F	GRUNDON	VAR. COND. 4 ON 40429 (CAPPING IN ACCORDANCE WITH COND. 43)	11.12.96	C/A
97/65128/F	TELECOMM. SEC. CELL. RADIO	30M. MAST ETC. (22.5)	20.6.97	C/A
97/65283/VAR	GRUNDON OBS.	VAR. CONDS. 2, 4, 45, 47 48 ON 40429	28.1.98	C/A

SPECIAL ORDERS ENF. NOTICES ISSUED – DEPOSIT WASTE – 18.9.96 – WITHDRAWN – 20.5.97

(1)

ADDRESS STAR WORKS. STAR LANE. PARISH WARGRAVE E

PLOT No. ORD. SHEET No. SU. 8179-8279 (18-19)

BUILDER 184/47 MESSRS. WARNER LTD. EXCAVATIONS 11.7.47 C/A

Plan No.	Applicant	Description of Development	Date of Decision	Decision
509/49 —	Messrs W. F. Warner Ltd.	New Lavatory Accom.	16 12 49	App App
295/53	" " "	Reconstruction of Kiln	20 5 53	App App
1002/54	" " "	Erect Workshop	17 1 55	App App
118/55 —	" " "	Porch over office entrance	14 3 55	App App
896/56 —	" " "	Extend main office + Erect New Office	7 12 56	App App
F/17/60	" " "	Erect Workshop for Manufacture Bldg blocks	14 9 60	App C/A
M/2/62	Knowl Hill Sand Pit	Sand washing plant	23 10 62	N/A C/A
F/10/62	Messrs W F Warner Ltd	Use Top Yard for Manuf of Concrete products	26 3 63	N/A TP 30.3.77
F/10/64	" "	Use Bldings 13 + 14 as Warehouse	17 8 64	N/A TP 31.3.77
R/382/66 —	" "	Extension to offices	2 1 67	App App
R/284/68	Pordain Ltd	Use 8 acres of land as Training for Excavators for a period of 7 years	19 9 68	N/A Ref

DATE OF COMPLETION

MINISTRY DECISION

SPECIAL ORDERS

DRAINAGE

091074

(2) ADDRESS STAR WORKS STAR LANE PARISH WARGRAVE E

PLOT No. ORD. SHEET No. SU. 8179-8279 (18 19)

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
71/71	KNOWL HILL SAND PIT	EXT. CONTD. PERIOD FOR TIPPING	18.3.71	N/A T.P. 31.12.73
1519/72	H. F. WARNER LTD	STEEL CHIMNEY BOILER	28.9.72	APP.
21169	STAR WORKS	KILN ROOM	5.4.84	N/A C/A
BR23234	H. F. WARNER LTD.	" "	22.8.84	APP N/A
RAA 3087	IBSTOCK BLDG PRODUCTS	REPL. OF EX. BLDG. TO PROVIDE TILE DRIER	18.6.87	APP
28907 —	"	S/ST. EXT. - TOILETS RECEPTION/ CONFERENCE ROOM/OFFICE	4.11.87	C/A
29029	"	GAS GOVERNOR/METER HOUSE	15.1.88	C/A
32793	"	2nd TILEWORKS & REPHASING OF CLAY EXTRACTION	W/DR.	-- OB
39296	"	REGISTER OF OLD MINING PERMISSION 1947	12.1.93	C/A

DATE OF COMPLETION

MINISTRY DECISION 40429 — * APPEAL ALLOWED (FAILURE TO DETERMINE BY B.C.C) 5.9.94

SPECIAL ORDERS LA SIGNED - 40429 - 9.8.94

DRAINAGE EXT. OF TIME - RE COND. 44 ON 40429 - NO OBJS. - 13.11.95

091074

40429 S. GRUNDON (WASTE) LTD RESTORE FORMER LANDFILL SITE/FURTHER EXTENSION & RESTORATION OF THE QUARRY, OFFICE 17.2.93 & 27.1.98 (CONDS) * REF C/A