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PLANNING SERVICES APPLICATION

CONSULTATION SHEET

APPLICANT:

James Barr Consultants,
32-34 Great Titchfield Street,
London
W1W 8BG

APPLICATION NO: PP/01/01614

APPLICATION DATED: 13/07/2001

DATE ACKNOWLEDGED: 19 July 2001

APPLICATION COMPLETE: 18/07/2001

DATE TO BE DECIDED BY: 12/09/2001

SITE: Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

PROPOSAL: Upgrading of existing telecommunications rooftop installation by adding 3 no. panel antennae.

ADDRESSES TO BE CONSULTED

1. 326 - 342 (even) King's Road.
- 2.
- 3.
- 4.
- 5.
- 6.
7. 26 - 32 (even) }
8. 17, } Mallord Street
9. 21 }
- 10.
- 11.
12. ..
- 13.
14. 2 The Vale
- 15.

60

CONSULT STATUTORILY

English Heritage Listed Bdgs - CATEGORY: ...
English Heritage Setting of Bdgs Grade I or II ...
English Heritage Demolition in Cons. Area ...
Demolition Bodies ...
DoT Trunk Road - Increased traffic ...
DoT Westway etc., ...
Neighbouring Local Authority ...
Strategic view authorities ...
Kensington Palace ...
Civil Aviation Authority (over 300') ...
Theatres Trust ...
National Rivers Authority ...
Thames Water ...
Crossrail ...
LRT/Chelsea-Hackney Line ...
Victorian Society ...

ADVERTISE

Effect on CA ...
Setting of Listed Building ...
Works to Listed Building ...
Departure from UDP ...
Demolition in CA ...
"Major Development" ...
Environmental Assessment ...
No Site Notice Required ...
Notice Required other reason ...
Police ...
L.P.A.C ...
British Waterways ...
Environmental Health ...
GLA - CATEGORY: ...
Govt. Office for London ...
Twentieth Century Society ...

✓ 1 m
20/7.

✓ Rebecca
20/7.

DEVELOPMENT CONTROL

TECHNICAL INFORMATION

THE ROYAL
BOROUGH OF



KENSINGTON
AND CHELSEA

ADDRESS CHELSEA ~~ATTE~~ EXCHANGE
MALLORD STREET

POLLING DISTRICT P
PP011614

HB	Buildings of Architectural Interest	LSC	Local Shopping Centre
AMI	Areas of Metropolitan Importance	AI	Sites of Archeological Importance
MDO	Major Sites with Development Opportunities	SV	Designated View of St. Paul's from Richmond
MOL	Metropolitan Open Land	SNCI	Sites of Nature Conservation Importance
SBA	Small Business Area	REG 7	Restricted size and use of Estate Agent Boards
PSC	Principal Shopping Centre (Core or Non-core)	ART IV	Restrictions of Permitted Development Rights

Conservation Area	HB	CPO	TPO	AMI	MDO	MOL	SBA	Unsuitable for Diplomatic Use	PSC	LSC	AI	SV	SNCI	REG 7	ART IV
17									C	N					

	Within the line of Safeguarding of the Proposed Chelsea/Hackney underground line
	Within the line of Safeguarding of the Proposed Eastwest/Crossrail underground line

Density	
Site Area	
Habitable Rooms Proposed	
Proposed Density	

Plot Ratio	
Site Area	
Zoned Ratio	
Floor Area Proposed	
Proposed Plot Ratio	

Daylighting	Complies	
	Infringes	

Car Parking	Spaces Required	
	Spaces Proposed	

Notes:

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}-----> Flat 2 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 20 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 3 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 4 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 5 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 7 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 8 Tryon House 17 Mallord Street SW3 6AJ () //
}-----> Flat 9 Tryon House 17 Mallord Street SW3 6AJ () //

```

30 Mallord Street SW3 6DU [+ 0]

22 Mallord Street SW3 6DU [+ 0]

End of list CLPG Address Search

Source: RBKC Corporate Land and Property Gazetteer (as on 04/01/2001) - RBKC/Plat QuickMap (20/07/01)

CLPG NEIGHBOURING CONSULTTEES ADDRESS SEARCH
CLPG ADDRESS SEARCH

30 Mallord Street SW3 6DU [+ 0]

28 Mallord Street SW3 6DU [+ 0]

26 Mallord Street SW3 6DU [+ 0]

CLPG NEIGHBOURING CONSULTANTS ADDRESS SEARCH
CLPG ADDRESS SEARCH

Vale Court 21 Mallord Street SW3 6AL [+ 25] } including

}----->	Flat 1	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 10	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 11	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 12	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 13	Vale Court	21	Mallord Street	SW3 6AL	() //
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}----->	Flat 17	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 18	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 19	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 2	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 20	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 21	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 22	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 23	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 24	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 25	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 3	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 4	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 5	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 6	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 7	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 8	Vale Court	21	Mallord Street	SW3 6AL	() //
}----->	Flat 9	Vale Court	21	Mallord Street	SW3 6AL	() //

Flat A 338 King's Road SW3 5UR [+ 0]

COLIN ORCHARD CONSULTANTS 1st/2nd Floor Flat Flat A 336 King's Road SW3 5UR [+ 0]

332 /334 King's Road SW3 5UR [+ 5] } including

}----->	Flat 1	332	King's Road	SW3 5UR	() //
}----->	Flat 2	332	King's Road	SW3 5UR	() //
}----->	Flat 3	332	King's Road	SW3 5UR	() //
}----->	Flat 4	332	King's Road	SW3 5UR	() //
}----->	Ground Floor	332 /334	King's Road	SW3 5UR	(bar/club/restaurant) //

2nd Floor Flat 330 King's Road SW3 5UR [+ 1] } including

}----->	Ground Floor	330	King's Road	SW3 5UR	(bar/club/restaurant) //
---------	--------------	-----	-------------	---------	--------------------------

1st/2nd Floor Flat Flat A 328 King's Road SW3 5UH [+ 0]

324 /326 King's Road SW3 5UH SHOP [+ 0]

Flat A 326 King's Road SW3 5UH [+ 0]

2 The Vale SW3 6AH [+ 0]

32 Mallord Street SW3 6DU [+ 0]

Tryon House 17 Mallord Street SW3 6AJ [+ 17] } including

}----->	Flat 1	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 11	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 13	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 14	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 15	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 16	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 17	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 18	Tryon House	17	Mallord Street	SW3 6AJ	() //
}----->	Flat 19	Tryon House	17	Mallord Street	SW3 6AJ	() //

MEMORANDUM

TO: FOR FILE USE ONLY

**From: EXECUTIVE DIRECTOR
PLANNING & CONSERVATION**

My Ref: PP/01/01614/CC

CODE A1

Room No:

Date: 20 July 2001

DEVELOPMENT AT:

Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

DEVELOPMENT:

Upgrading of existing telecommunications rooftop installation by adding 3 no. panel antennae.

The above development is to be advertised under:-

- 1. Section 73 of the Planning (Listed Buildings and Conservation Areas) Act 1990
(development affecting the character or appearance of a Conservation Area or
adjoining Conservation Area)**

M.J. French

Executive Director, Planning & Conservation

PLANNING AND CONSERVATION

THE TOWN HALL HORNTON STREET LONDON W8 7NX

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS

Director of Environmental Health,
Council Offices,
37 Pembroke Road,
London,
W8 6PW

Switchboard: 020-7937-5464
Direct Line: 020-7361-2057
Extension: 2057
Facsimilie: 020-7361-3463

**THE ROYAL
BOROUGH OF**



**KENSINGTON
AND CHELSEA**

Date: 20 July 2001

My Ref: DPS/DCSW/PP/01/01614 Your ref: Please ask for: Charlotte Cook

Dear Sir/Madam

TOWN AND COUNTRY PLANNING ACT 1990

Proposed development at: Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

I enclose a copy of an application, with relevant drawings and/or supporting information, and should be pleased to receive your observations on these proposals as soon as possible.

It is hoped to present this application to the Planning Services Committee prior to 12/09/2001. I look forward to hearing from you in the near future, in order that your comments may be reported to this Committee.

Should you require any further details in respect of this case, please do not hesitate to contact the Case Officer on the above extension.

Yours faithfully

M.J. FRENCH

Executive Director, Planning and Conservation

PLANNING AND CONSERVATION

THE TOWN HALL HORNTON STREET LONDON W8 7NX

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS

THE ROYAL
BOROUGH OF



KENSINGTON
AND CHELSEA

FILE COPY

2079/ 2080

020-7361- 2079/ 2080

Switchboard: 020-7937-5464

Extension:

Direct Line:

Facsimile:

020-7361-3463

My reference:

Your reference:

Please ask for: **Date: 20 July 2001**

My Ref: DPS/DCSW/PP/01/01614/CC

Planning Information Office

Dear Sir/Madam,

TOWN AND COUNTRY PLANNING ACT 1990

Proposed development at: Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

Brief details of the proposed development are set out below. Members of the public may inspect copies of the application, the plans and any other documents submitted with it. The Council's Planning Services Committee, in considering the proposal, welcomes comments either for or against the scheme. Anyone who wishes to make representations about the application should write to the Council at the above address **within 21 days** of the date of this letter. Unfortunately, the Council does not have the resources to advise objectors of the Committee date, and you should telephone for further information.

Proposal for which permission is sought

Upgrading of existing telecommunications rooftop installation by adding 3 no. panel antennae.

Applicant B.T. Cellnet, c/o agent

Yours faithfully

M. J. FRENCH

Executive Director, Planning and Conservation

WHAT MATTERS CAN BE TAKEN INTO ACCOUNT

When dealing with a planning application the Council has to consider the policies of the Borough Plan, known as the Unitary Development Plan, and any other material considerations. The most common of these include (not necessarily in order of importance):

- The scale and appearance of the proposal and impact upon the surrounding area or adjoining neighbours;
- Effect upon the character or appearance of a Conservation Area;
- Effect upon the special historic interest of a Listed Building, or its setting;
- Effect upon traffic, access, and parking;
- Amenity issues such as loss of Sunlight or daylight, Overlooking and loss of privacy, Noise and disturbance resulting from a use, Hours of operation.

WHAT MATTERS CANNOT BE TAKEN INTO ACCOUNT

Often people may wish to object on grounds that, unfortunately, cannot be taken into account because they are not controlled by Planning Legislation. These include (again not in any order of importance):

- Loss of property value;
- Private issues between neighbours such as land covenants, party walls, land and boundary disputes, damage to property;
- Problems associated with construction such as noise, dust, or vehicles (If you experience these problems Environmental Services have some control and you should contact them direct);
- Smells (Also covered by Environmental Services);
- Competition between firms;
- Structural and fire precaution concerns; (These are Building Control matters).

WHAT HAPPENS TO YOUR LETTER

Planning applications where objections have been received are presented to the Planning Services Committee which is made up of elected Ward Councillors. Planning Officers write a report to the Committee with a recommendation as to whether the application should be granted or refused. Letters received are summarised in the report, and copies can be seen by Councillors and members of the public including the applicant. The Councillors make the decisions and are not bound by the Planning Officer's recommendation. All meetings of the Committee are open to the public.

If you would like further information, about the application itself or when it is likely to be decided, please contact the Planning Department on the telephone number overleaf.

WHERE TO SEE THE PLANS

Details of the application can be seen at the Planning Information Office, 3rd floor, Town Hall, Hornton Street W.8. It is open from 9am to 4.45pm Mondays to Thursdays (4pm Fridays). A Planning Officer will always be there to assist you.

In addition, copies of applications in the Chelsea Area (SW1, SW3, SW10) can be seen at The Reference Library, Chelsea Old Town Hall, Kings Road SW3 (020 7361 4158), for the Central Area (W8, W14, SW5, SW7) can be viewed in the Central Library, Town Hall, Hornton Street, W.8. and applications for districts W10, W11 and W2 in the North of the Borough can be seen at The Information Centre, North Kensington Library, 108 Ladbroke Grove, London W11 (under the Westway near Ladbroke Grove Station 020 7727-6583). Please telephone to check the opening times of these offices.

If you are a registered disabled person, it may be possible for an Officer to come to your home with the plans. Please contact the Planning Department and ask to speak to the Case Officer for the application.

PLEASE QUOTE THE APPLICATION REFERENCE NUMBER ON YOUR REPLY

REASON FOR DELAY

CASE NO. PP/01/1614

identified as a "Target" application, which has the target for being
the Head of Development Control within 6 weeks of the date of

application, there has been a delay of.....

to pass through the case within the target period for the following
as necessary]

internal Consultation
or all]

- (i) Design
- (ii) Transportation
- (iii) Policy
- (iv) Environmental Health
- (v) Tress
- (vi) Other

about notification/external consultation necessary (spread or time

reaction from English Heritage/other EH delays...

requested, but not received in time

received but inadequate

received but reconsultation necessary

mittee cycle

instruction

REASON.....

Christie Cook

(Case Officer)

THE ROYAL
BOROUGH OF



KENSINGTON
AND CHELSEA

NOTICE OF A PLANNING APPLICATION

TOWN AND COUNTRY PLANNING ACT 1990
PLANNING (LISTED BUILDINGS AND CONSERVATION AREAS) ACT 1990

Notice is hereby given the Royal Borough of Kensington and Chelsea Council have received an application:

(a) for development of land in or adjacent to a Conservation Area.

Details are set out below.

Members of the public may inspect copies of the application, the plans and other documents submitted with it at:

The Planning Information Office, 3rd floor, The Town Hall, Hornton Street, W8 7NX between the hours of 9.15 and 4.45 Mondays to Thursdays and 9.15 to 4.30 Fridays;

For applications in the Chelsea area: The Reference Library, Chelsea Old Town Hall, Tel. 0171-361-4158.

For postal areas W10, W11 and W2: The 1st floor, North Kensington Library, 108 Ladbroke Grove, W11, Tel. 0171-727-6583.

Anyone who wishes to make representations about this application should write to the Executive Director of Planning and Conservation at the Town Hall (Dept. 705) within 21 days of the date of this notice.

SCHEDULE

Ce, 28/7/01, Portgate railway

Reference: PP/01/01614/CC

Date: 27/07/2001

Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

Upgrading of existing telecommunications rooftop installation by adding 3 no. panel antennae.

APPLICANT: B.T. Cellnet,



PLANNING AND CONSERVATION

THE TOWN HALL HORNTON STREET LONDON W8 7NX

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS

Mr A Hoodgendyk
James Barr Consultants
32-34 Great Titchfield Street
LONDON
W1W 8BG

Switchboard: 020 7937 5464
Extension: 2057
Direct Line: 020 7361 2057
Facsimile: 020 7361 3463
Email: Charlotte.Cook@rbkc.gov.uk
Web: www.rbkc.gov.uk

23 July 2001

THE ROYAL
BOROUGH OF



KENSINGTON
AND CHELSEA

My reference: DPS/DCSW/CC/ Your reference: AH/PL/TPL36840/ Please ask for: Charlotte Cook
PP/01/1614 9051FP

Dear Mr Hoodgendyk,

Town and Country Planning Act 1990
Chelsea Telephone Exchange, 19 Mallord Street, SW3
Telecommunications Installation

I write in connection with your current planning application, Reference PP/01/1614, which was registered on 18th July 2001.

In order to process your application, I will require further drawings which clarify what is proposed in this application.

Please provide clearly annotated front and side (North East) as existing and as proposed elevations. I will also require an as existing roof plan in order to compare existing with proposed.

Please provide this information within 14 days of the date of this letter.

Yours sincerely,

Roy Thompson
Area Planning Officer
For Executive Director Planning and Conservation

R

Memorandum

To: Charlotte Cook (Planning Dept)
From: Rebecca Jane (Environmental Health)
Date: 30/07/2001
Re: Chelsea Telephone Exchange

In order for Environmental Health to assess the health and safety implications of a base station (and supporting equipment) application we would ask that the applicant supply the following information:

- (a) the exact specification of the equipment to be installed at this site including:
- the height of the antenna;
 - the frequencies that the apparatus will operate at;
 - details about the paths of the microwave beams and
 - the power density that will be emitted from the installation at various distances across the roof-top from the antennae. The density can then be compared directly with international guidelines.
 - Details of any ancillary plant required for the operation of the base stations, for example, condenser units that will be kept in the equipment cabins to keep the equipment cool (specifically their noise ratings).
- (b) a detailed site-specific risk assessment, incorporating:
- the identification of potential receptors (for example nearby buildings), including the estimated power densities at these locations and the possible hazards that these may represent (please include a map to show the locations of these receptors in relation to the application site) and
 - methods that will be undertaken to minimise the risks, including those risks that personnel maintaining the site and other contractors/visitors may be exposed to.

Unfortunately until we have all this information we are unable to consider the potential health and safety risks associated with this type of installation.

Rebecca

Cook, Charlotte: PC-PlanSvc

From: Jane, Rebecca: ES-EnvHlth
Sent: 31 July 2001 09:30
To: Cook, Charlotte: PC-PlanSvc
Subject: RE: Chelsea Telephone Exchange

yes

-----Original Message-----

From: Cook, Charlotte: PC-PlanSvc
Sent: 31 July 2001 09:27
To: Jane, Rebecca: ES-EnvHlth
Subject: RE: Chelsea Telephone Exchange

Rebecca,

Thanks for your comments. Before I send a letter to the applicants requesting this information, can I just confirm with you that all this information is also required for this type of equipment which is (I am advised by the agent) for Third Generation phones (WAP phones and internet facilities).

Thanks,

Charlotte

-----Original Message-----

From: Jane, Rebecca: ES-EnvHlth
Sent: 30 July 2001 15:56
To: Cook, Charlotte: PC-PlanSvc
Subject: Chelsea Telephone Exchange

Charlotte,

Please find attached my comments.

<< File: Initial Memo.doc >>

Rebecca Jane

Environmental Pollution Officer
Royal Borough of Kensington and Chelsea
Environmental Quality Unit
Council Offices
37 Pembroke Road
London
W8 6PW

Tel: 020 7341 5716
Fax: 020 7341 5645

PLANNING AND CONSERVATION

THE TOWN HALL HORNTON STREET LONDON W8 7NX

THE ROYAL
BOROUGH OF

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS



KENSINGTON
AND CHELSEA

Mr A Hoodgendyk
James Barr Consultants
32-34 Great Titchfield Street
LONDON
W1W 8BG

Switchboard: 020 7937 5464
Extension: 2057
Direct Line: 020 7361 2057
Facsimile: 020 7361 3463
Email: Charlotte.Cook@rbkc.gov.uk
Web: www.rbkc.gov.uk

31 July 2001

My reference: DPS/DCSW/CC/ PP/01/1614 Your reference: AH/PL/TPL36840/ 9051FP Please ask for: Charlotte Cook

Dear Mr Hoodgendyk,

Town and Country Planning Act 1990
Chelsea Telephone Exchange, 19 Mallord Street, SW3
Telecommunications Installation

I write further to my letter of 23rd July 2001, regarding the current planning application.

I have now received advice from the Environmental Health Officer, Rebecca Jane, who has indicated that there are a number of pieces of additional information which will be required to enable her to assess the health and safety implications of the proposed base station and supporting equipment. The additional information required is as follows:

- A. The exact specification of the equipment to be installed at this site:
 - The height of the antenna.
 - The frequencies that the apparatus will operate at.
 - Details about the paths of the microwave beams.
 - The power density that will be emitted from the installation at various distances across the roof-top from the antennae. The density can then be compared directly with international guidelines.
 - Details of any ancillary plant required for the operation of the base stations, for example, condenser units that will be kept in the equipment cabins to keep the equipment cool (specifically their noise ratings).
- B. The detailed site-specific risk assessment, incorporating:
 - The identification of potential receptors (for example, nearby buildings), including the estimated power densities at these locations and the possible hazards that these may represent (please include a map to show the locations of these receptors in relation to the application site).
 - Methods that will be undertaken to minimise the risks, including those risks that personnel maintaining the site and other contractors/visitors may be exposed to.

Please provide this information within 14 days of the date of this letter. If you have any further queries as to what is required of you, please contact Ms Jane in the Environmental Pollution Unit on 020 7361 5716.

R

● Yours sincerely,



Roy Thompson
Area Planning Officer
For Executive Director Planning and Conservation

I think he means Charlotte!

Catherine

Telephone Exchange
Telephone Exchange, Nallad Street,

Can a copy of the report when it is done
be sent to Cllr Paul Warrick for info

Paul

Mike

COPY OF OFFICER REPORT TO
MIKE WHEN COMPLETE, TO GO
TO Cllr. WARRICK BEFORE
ISSUING DECISION

ce

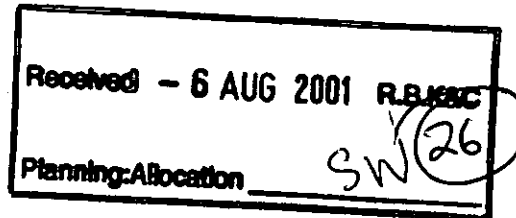
Copied to Rebecca Jane
ETD 9/8/01.
CC

CC
Dor
Vib
b/b

Our Ref: AH/PL/TPL36840/9051/02
Your ref: DPS/DCSW/CC/PP/01/1614

2 August 2001

For the attention of: Charlotte Cook
Royal Borough of Kensington & Chelsea
Planning Services
South West Area Team
Town Hall
Hornton Street
LONDON
W8 7NX



Dear Ms Cook

BT CELLNET CELL NO: 9051 (CHELSEA A.T.E)
TELECOMMUNICATIONS INSTALLATION AT CHELSEA TELEPHONE
EXCHANGE, 19 MALLORD STREET, SW3

Thank you for your letter requesting additional information to assist in the assessment of health and safety implications of the proposed base station and supporting equipment.

An independent contractor has carried out a risk assessment of the use of a mobile phone base station at Chelsea ATE. Enclosed please find a copy of the report containing the findings of this assessment for your information and in support of our planning application.

I noticed that ms Rebecca Jane requested details of ancillary equipment required for the operation of base stations such as air conditioning units and the noise levels thereof. I do not however consider that this information is relevant to the application since we are only applying for the upgrade of the existing site by the addition of three antennas. The existing cabinets, which BT Cellnet have permission for, are sufficient for their needs and therefore no additional ancillary equipment is being proposed.

I have however contacted BT Cellnet and requested details on such equipment and its noise levels to accompany future applications where relevant.

I also refer to our telephone conversation on 25 July 2001 during which you requested further drawings clarifying the proposed equipment to be installed as well as a northeast elevation of the building for assessment purposes.

**JAMES
BARR** 
CONSULTANTS

32-34 Great Titchfield Street
London W1W 8BG
United Kingdom

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Fax: +44 (0) 207 462 6941

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Douglas Keith
Alan Newbigging
Alan Pratt FRICS

COMPANY SECRETARY
Sylvia Lindsay

James Barr Consultants Ltd
Registered in Scotland No 175320
Registered Office
226 West George Street Glasgow G2 2LN

These drawings were requested but haven't arrived yet. We will forward it to your Council as soon as we receive it.

I trust that this will be satisfactory, but please do not hesitate to contact the undersigned should you require any further information.

Yours sincerely

On behalf of BT Cellnet



Alwyn Hoogendyk
Planning Consultant

Phone: 0207 462 6968

Fax: 0207 462 6941

Mobile: 0788 763 5695

E-mail: ahoogendyk@jamesbarr.co.uk

pc ACK

Our Ref: AH/PL/TPL36840/9051/04
Your ref: DPS/DCSW/CC/PP/01/1614

10 August 2001

57
**COPY OF PLANS
TO INFORMATION
OFFICE PLEASE**

For the attention of: Charlotte Cook
Royal Borough of Kensington & Chelsea
Planning Services
South West Area Team
Town Hall
Hornton Street
LONDON
W8 7NX

32-34 Great Titchfield Street
London W1W 8BG
United Kingdom

Tel: +44 (0) 207 462 6940
Fax: +44 (0) 207 462 6941

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Estate Management
Planning Supervision
Project Management
Quantity Surveyors
Site Search

Dear Ms Cook

BT CELLNET CELL NO: 9051 (CHELSEA A.T.E)
TELECOMMUNICATIONS INSTALLATION AT CHELSEA TELEPHONE
EXCHANGE, 19 MALLORD STREET, SW3

I refer to your letter dated 23 July 2001 requesting additional drawings to assist the assessment of the application for the installation of telecommunications apparatus at the above address.

Enclosed please find a set of these drawings including a proposed roof plan, a proposed north west elevation, a proposed north east elevation and an existing roof plan.

I apologise for the delay in forwarding these, but the drawings had to be requested from the structural engineering company that has originally drawn up these plans. I trust however that this will be sufficient and helpful for your assessment of the application.

Please do not hesitate to contact the undersigned should you require any further information.

Yours sincerely
On behalf of BT Cellnet


Alwyn Hoogendyk
Planning Consultant

Phone: 0207 462 6968
Fax: 0207 462 6941
Mobile: 0788 763 5695
E-mail: ahooogendyk@jamesbarr.co.uk

DIRECTORS

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Aidan Brown
David Cairns BSc MRICS
Graeme Hill BA(Hons) MRTPI
Rod Macfarlane
Ian Marshall BSc MRICS
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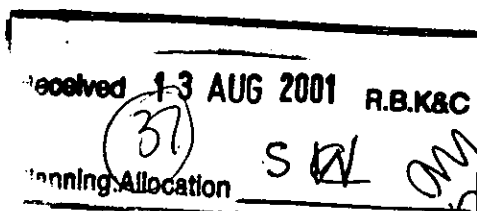
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COMPANY SECRETARY

Sylvia Lindsay

James Barr Consultants Ltd
Registered in Scotland No 175320
Registered Office
226 West George Street Glasgow G2 2LN



Cook, Charlotte: PC-PlanSvc

From: Jane, Rebecca: ES-EnvHlth
Sent: 23 August 2001 12:01
To: Cook, Charlotte: PC-PlanSvc
Subject: FW: Chelsea Telephone Exchange

Sorry Charlotte, I really thought I already had. See the memo below.

Sorry once again.

Becky.

-----Original Message-----

From: Jane, Rebecca: ES-EnvHlth
Sent: 15 August 2001 15:53
To: 'ahoogendyk@jamesbarr.co.uk'
Subject: Chelsea Telephone Exchange

Dear Mr Hoogendyk,

I have just received a copy of the Stanger's report re this application. I have made a few comments and these can be found in the document attached.

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

Regards,



Alwyn Hoogendyk (memo II).doc

Rebecca Jane

Environmental Pollution Officer
Royal Borough of Kensington and Chelsea
Environmental Quality Unit
Council Offices
37 Pembroke Road
London
W8 6PW

Tel: 020 7341 5716
Fax: 020 7341 5645

ENVIRONMENTAL SERVICES, ROYAL BOROUGH OF KENSINGTON AND CHELSEA

TO: ALWYN HOOGENDYK (JAMES BARR)
FROM: REBECCA JANE (RBK&C - ENVIRONMENTAL HEALTH)
SUBJECT: CHELSEA TELEPHONE EXCHANGE - 19 MALLORD STREET
DATE: 29/08/2001
CC: CHARLOTTE COOK (RBK&C - PLANNING DEPT)

I have just received a copy of the report that Stangers carried out. Overall, the report was very informative. However, there are still a few points for which further information is required.

In my memo dated July 30th 2001, which I understand was forwarded to you by the planning officer, I requested that power density levels should be predicted at several points across the roof. I also asked for the identification of potential receptors (for example, nearby buildings - particularly schools) and for the power densities to be estimated at these locations. It would appear that the report does not incorporate these.

We appreciate that beyond the exclusion zones, (in this case, 4.35 metres in front of the antennae), the ICNIRP public exposure guidelines will not be exceeded. However, we often receive telephone calls from concerned residents who are worried about the radiation levels they are being exposed to at their houses. If we are able to tell them the power density levels predicted for buildings nearby to the installation and what these levels are in comparison with the standards, then we are better able to allay their fears.

For this reason, it would also be useful to know the distance (from the antennae) at which the beam of greatest intensity would meet ground level, what the power density would be at that point and what buildings it would fall on.

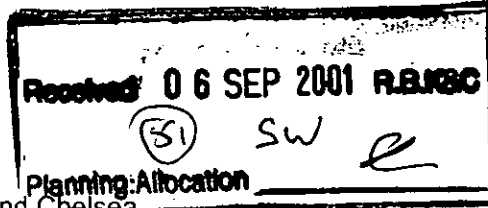
The report from Stangers makes several recommendations in paragraph 5.8. Please can you confirm that these will be adopted?

If you have any queries relating to any of the above then please do not hesitate to contact me on 020 7341 5716.

Our Ref: AH/PL/LP36840/9051
Your Ref: DPS/DCSW/CC/PP/01/1614

5 September 2001

Ms. Charlotte Cook
Planning and Conservation
The Royal Borough of Kensington and Chelsea
The Town Hall
Hornton Street
London
W8 7NX



PC-ACK
JAMES BARR
CONSULTANTS

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Dear Ms Cook

**PROPOSED UPGRADE OF TELECOMMUNICATIONS INSTALLATION
BT CELLNET CELL NO: 9051 - CHELSEA TELEPHONE EXCHANGE,
19 MALLORD STREET**

Introduction

We refer to the full planning application for a radio base station at the above address, registered by Council on 18th July 2001.

On 28 August 2001, we telephoned Council regarding this application and two aspects of the proposed development were discussed with Ms Cook. We can provide the following information in regard to these two matters:

1. Visibility of proposed antennas

Ms Cook advised that Council may have some concerns regarding the visibility of the antennas as proposed in the submitted application. In this regard we can advise that the proposed antennas will be painted to match the existing brickwork finish of the building. Alternatively, should it be deemed necessary by Council, GRP shrouds matching the existing brickwork finish of the building can be used to screen the antennas and allow the proposed installation to effectively blend in with and form part of the existing building.

2. Health and Safety and the revised PPG8

At the outset, we would like to provide clarification on the latest legislation pertaining to health and safety for telecommunications:

Planning Policy Guidance Note 8 'Telecommunications' (Revised August 2001) replaces PPG8 of December 1992 'Telecommunications' and Circular 4/99 'Planning for Telecommunications'. Paragraphs 29-31 and 82-101 of PPG 8 provide advice to local planning authorities on the matter of health considerations with respect to making planning decisions about telecommunications development.

The Independent Expert Group on Mobile Phones (IEGMP) in its report of 11 May 2000 recommended that a precautionary approach to the use of mobile phone technologies and that emissions from mobile phone base stations

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should meet the International Commission on Non-Ionizing Radiation Protection (ICNIRP) guidelines for public exposure.

The revised PPG8 reiterates the Government's earlier position that:

"... it is the Government's firm view that the planning system is not the place for determining health guards. In the Government's view, if a proposed mobile phone base station meets ICNIRP guidelines for public exposure it should not be necessary for a local planning authority, in processing an application for planning permission or prior approval, to consider further health aspects and concerns about them. (Paragraph 30)

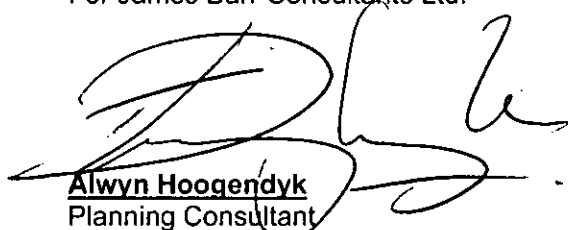
A Declaration of Conformity with ICNIRP Public Exposure Guidelines was submitted with the planning application. Additional information also submitted in support of the application included the Coverage Simulation Modulation with frequency and power output details and the Antenna Emissions Profile (3) showing the ICNIRP public access boundary limit.

We consider that we have complied with the most recent government advice on this matter. In view of the clarification of government advice outlined above we respectfully request a decision on the application.

Should you have any questions or require further clarification on this matter please do not hesitate to contact the undersigned in the first instance.

We look forward to hearing from you at your earliest convenience.

Yours sincerely
For James Barr Consultants Ltd.



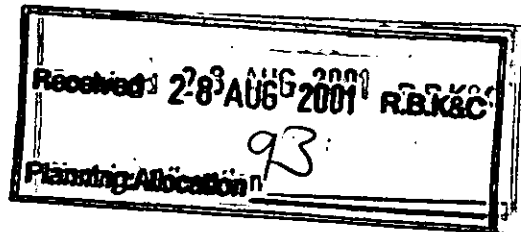
Alwyn Hoogendyk
Planning Consultant

Direct Dial: 0207 462 6968
Mobile: 0788 763 5695
Email: ahoogendyk@jamesbarr.co.uk

32 Mallord Steet
Chelsea
London SW3 6DU
[020.7352.3962]

10 August 2001

M.J. French,
Planning and Conservation,
The Town Hall,
Hornton Street,
London W8 7NX.



Your Ref: DPS/DCSW/PP/01/01614/CC

Dear Sir,

Chelsea Telephone Exchange, 19 Mallord Street

I write to comment on two aspects of the above named application:

1. The tall chimney at the western end of the roof of the Telephone Exchange, unfortunately very prominently visible from my top front windows, is already an eye-sore by reason of its size, and also the junk that has been attached to it from time to time. The drawings submitted by the applicant are contradictory and inadequate. The plan shows elements sticking out laterally beyond the side of the chimney, but these are not shown on the elevation drawing.

The applicants should submit proper large elevation drawings of the chimney: (a) as it is at present with proposals for removing or tidying up the junk that is in it now: and (b) showing accurately what is proposed.

2. The long argument under 9.1 of the Application seeking to convince that the proposed installations would pose no danger to health, is not convincing, and evidently does not convince the applicants themselves. This is indicated by their own claim that they can "conclude with the current state of knowledge there are no harmful effects through the normal use of cellular phones or transmission equipment." The public has learned to suspect assurances of this kind, particularly when they are qualified by the phrase "current state of knowledge".

This safety issue may not be the concern of the Planning Committee but it should be the concern of the Borough, so I would urge you to refer this matter to the agency of the Borough Council concerned with public safety. In my opinion the application should be refused on the ground of uncertainty about the effect of this equipment on public safety, specifically those, including myself, who use my upper front room, not to mention others of my neighbours.

Yours faithfully,

T.C. Mitchell

**THE ROYAL BOROUGH OF KENSINGTON AND CHELSEA
MEMORANDUM - SECTION 101 - LOCAL GOVERNMENT ACT, 1972**

To: Chief Administrative Officer (Planning)
From: The Executive Director, Planning & Conservation

Date: 03 October 2001
Our Ref: PP/01/01614

Application Date: 13/07/2001 Complete Date: 18/07/2001

Revised Date:

Agent: James Barr Consultants, 32-34 Great Titchfield Street, London W1W 8BG
Address: Chelsea Telephone Exchange, 19 Mallord Street, London, SW3 6AP

This application is for a class of development to be determined under powers delegated to me by the Council on 18th July, 2001 and is not a major, controversial or sensitive application nor one which a Ward Councillor has asked to be considered by Planning Services Committee.

Class - 8th Schedule development

Class - shop fronts

Class - conversion from non
s/c dwellings etc

Class - amendments as required
by T.P. Committee

Principal

Class - grant or refuse certificates of
Lawful development
under

Class - Crossover under S.108 of the
Highways Act 1980

Consent under T&CP Control of Advertisement Regulations 1984-90; incl. refusal of consent for Reg. 15 applications.

Class - Listed building consent for above Classes.

Class - Conservation area consent

Class - approval of facing materials

Class - grant of planning permission for a change
from one kind of non-residential use to
another non-residential use except where this
would involve the loss of a shop in a

core shopping frontage.

Class - grant permission license or no objection

Sections 73, 74, 138, 143, 152, 153, 177 &
180 of the Highways Act

DESCRIPTION OF PROPOSED DEVELOPMENT

Upgrading of existing telecommunications rooftop installation by adding 3 no. panel antennae.

RECOMMENDED DECISION Refuse planning permission

RBK&C drawing(s) No. PP/01/01614 and PP/01/01614/A, Applicant's drawing(s) No.101-, 102-, 103-, 104-, and 105/BT Cellnet Supporting Statement dated 11.7.01, and Stranger Report dated 30.7.01.

Number of Objections - 1

I hereby determine and grant/refuse this application (subject to HBMC Direction/Historic Building authorisation) under the powers delegated to me by the Council, subject to the condition(s) indicated below imposed for the reason(s) appearing thereunder, or for the reasons stated.

Exec. Director, Planning and Conservation Head of Development Control Area Planning Officer

CONDITIONS AND REASONS FOR THEIR IMPOSITION

1. **The proposed telecommunications antennae, by reason of their size, fixing, position, visual prominence, and cumulative impact, would result in unacceptable high level clutter on the building, to the detriment of its character and appearance, and the character and appearance of this part of the Chelsea Park/Stanley Conservation Area. As such, the proposal is contrary to Policies CD44a, CD44b, CD45, CD52 and CD53 of the Royal Borough of Kensington and Chelsea Unitary Development Plan and alterations thereto.**

INFORMATIVES

1. You are advised that a number of relevant policies of the Unitary Development Plan **and proposed alterations thereto** were used in the determination of this case, in particular, Policies CD44a, CD44b, CD45, CD52 and CD53. (I51)
2. You are advised that the permission granted in respect of the existing antennae on the building (granted 2.7.99, Ref. PP/99/623) showed the antenna to be located on the north eastern elevation of the lift housing in a different position to its current location on the building. You are advised that the antenna should be moved to its approved position to avoid the Royal Borough taking enforcement action in respect of this breach of planning control. Furthermore, Condition 3 of the planning permission requires the antennae to be painted to match the brickwork. It is noted that the antenna on the south west corner has not been painted to match the brickwork of the chimney to which it is affixed. You are advised to paint the antenna as required by the condition to avoid enforcement proceedings being instigated for a Breach of Condition.

1. THE SITE

1.1 Chelsea Telephone Exchange is a five storey building located on the southern side of Mallord Street, close to the junction with The Vale. The property is situated within the Chelsea Park/Carlyle Conservation Area.

2. THE PROPOSAL

2.1 The application seeks permission for the upgrading of existing telecommunications equipment on the roof of the building, and includes the addition of 3 new antennae, which would be located adjacent to each of the exiting antennae.

3. PLANNING HISTORY

3.1 Planning permission was granted on 2nd July 1999 for the erection of three panel antennae and one radio equipment cabin at roof level. Permission was granted on a temporary basis, until 1st July 2004 (ie. 5 year permission).

4. PLANNING CONSIDERATIONS

4.1 The main issues for consideration relate to the impact of the new equipment upon the character and appearance of the building and this part of the Chelsea Park/Carlyle Conservation Area, and any health and safety implications.

4.2 The relevant planning policies are CD45 regarding telecommunications equipment, CD44a relating to the cumulative impact of small scale unsympathetic alterations, CD44b concerning the installation of plant and equipment, and CD52 and CD53 which deal with development in Conservation Areas.

4.3 Planning Policy Guidance Note 8 (PPG 8) advises on Government thinking in relation to development by telecommunication code systems operators. In its recent re-issue (August 2001), PPG 8 states the Governments view that health and safety risks should not be determined through the planning process.

4.4 DESIGN:

With regard to the design of the new apparatus, the antennae would be situated on a chimney (to the west), and a lift housing (to the east). These elements of the building stand proud of the main roofline, and are clearly visible in views from the street. The existing equipment, approved in 1999, are readily distinguishable despite being colour finished to match the background brick (in the case of the antennae affixed to the lift housing). They stand proud of the face of the structures they are affixed to, rather than lying flush. It is also noted that on the eastern lift housing, the antennae has been located closer to the front of the building than approved, and is therefore more visible.

4.5 The proposed additional antennae would be fixed using more substantial brackets and protrude even further away from the chimney and lift housing. The agents have offered to paint the equipment to match the brickwork or enclose it within shrouds. Neither of these alternatives is considered to represent an appropriate solution, nor to overcome the concerns

regarding the increased prominence of the telecommunications equipment on this building. It is considered that the extra apparatus would result in additional clutter on the building, to the detriment of its character and appearance, and in turn, result in harm to this part of the Chelsea Park/Carlyle Conservation Area. For these reasons, the development is considered to conflict with Policies CD44a, CD44b, CD45, CD52 and CD53.

4.6 POTENTIAL HEALTH RISKS:

The Environmental Health Officer has considered the application and requested additional technical information to assess the health and safety implications of the proposals. In response to the report provided by the applicants, the Environmental Health Quality Unit requested further information relating to power output levels, although it was acknowledged that the ICNIRP public exposure guidelines would not be exceeded beyond the exclusion zones (4.35m in front of the antennae).

4.7 The Government's approach (set out in revised PPG8) is that, provided the ICNIRP guidelines are met, there should not be any reason to query the effects of a proposed installation in health terms. The courts have held, however, that public fear about possible health effects of a telecommunications installation is capable in principle of being a material consideration.

4.8 In this case there has been one letter of objection from a neighbouring residential occupier. Although residents' anxiety with respect to health effects of telecommunication equipment is acknowledged, in this case as the applicant has been able to demonstrate that the ICNIRP guidelines have been met, it is not considered that an additional reason for refusal could be sustained on the basis of a loss of amenity arising from the perception of health risks in this particular case.

5. PUBLIC CONSULTATION

5.1 Sixty properties were consulted in King's Road, Mallord Street and The Vale. One letter of objection has been received on the grounds that the drawings are inadequate and conflicting, and on the potential health risks.

5.2 The drawings are considered to be adequate in indicating the proposed development (as received on 13th August 2001), though not ideal in terms of the scale. The position of the antennae is considered to be accurately shown.

5.3 The potential health risks has been address in Section 4 of this report.

6. RECOMMENDATION

6.1 Refuse planning permission on design grounds.

M.J. FRENCH

EXECUTIVE DIRECTOR, PLANNING AND CONSERVATION

Background Papers

The contents of file PP/01/01614 save for exempt or confidential information in accordance with the Local Government (Access to Information) Act 1985.

Report Prepared By: CC
Report Approved By: RT/LAWJ
Date Report Approved:

File Note

Address: Chelsea Telephone Exchange, Mallord Street

Date: 11 October 2001

- Telecom Alwyn Hodgendyk.
- CC advised that the scheme is not acceptable as it stands. Explained why considered equipment would be harmful to the visual amenities of the area and the Conservation Area. Also noted that one of the existing antennae is not in the positioned approved.
- CC indicated that the scheme would need to be re-considered, and ideally, this should involve re-positioning the existing equipment aswell, to minimise its visibility from the street.
- CC advised that the application would be refused as it stands, unless he wished to withdraw.
- AH advised that he would withdraw and undertook to write to me to advise as such ASAP.

Officer *Charlotte Cook*

PLANNING AND CONSERVATION

THE ROYAL
BOROUGH OF

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS



KENSINGTON
AND CHELSEA

FAX COVER SHEET

To: Alwyn Hoogendyk
Company: James Barr Consultants Ltd.
Fax Number: 020 7462 6941

From: Charlotte Cook
Section: South West Team
Fax Number: 020 7361 3463
Phone Number: 020 7361 2057
Email: Charlotte.Cook@rbkc.gov.uk

Date and Time: 12 October 2001 - 11:33

Pages (inc. this one): 3

Re: Chelsea Telephone Exchange, 19 Mallord Street, SW3

☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please comment

Alwyn,

Here is an extract from the approved drawings showing the location of the antenna on the side of the lift housing circled. I also attach a photograph with the position of the antenna marked.

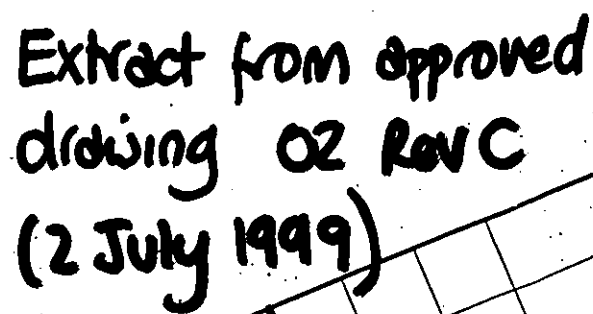
I have arranged for your application to be withdrawn, as per your fax.

As discussed, I am happy to offer informal advice on any alternative, less visible locations for the equipment, prior to the submission of a revised application.

Regards,

Charlotte Cook

Charlotte Cook



CHelsea A.T.E.

This antenna.



020 7462 6941

R B K C

JOB #617

	DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
001	10/12	11:40	02074626941	EC--S	01' 13"	C004	OK L1

Jenny,

Please arrange for this application to be withdrawn, as per the fax from James Barr dated 12th October 2001.

Please also notify objector and Cllr Paul Warwick that the application has been withdrawn (if not possible to generate a standard letter to Cllr Warwick, please let me know and I'll do a separate letter).

Thanks,

Charlotte
12.10.01

✓ am
15/10

Report

The use of a mobile telephone base station at Chelsea ATE

BT Cellnet

30 July 2001

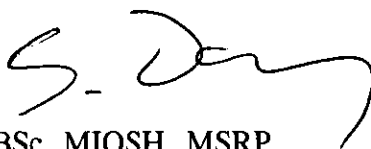
Stanger

Science and Environment

Report

The use of a mobile telephone base station at Chelsea ATE

Prepared by



S G Day BSc, MIOSH, MSRP
Fire and Safety Department

Approved by



P E Forrester DipSM, AMIEE, MSRP, MRSH
Fire and Safety Department

Prepared for

BT Cellnet Ltd
86/88 Edgware Road
London
W2 2YA

30 July 2001

Our Ref 03093/01/01/R14

Your Ref

Document Ref 9315/sgd

9315/sgd
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Registered Office
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1 of 9

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3	Health precautions	5
4	Calculation of exposure	6
5	BT Cellnet base station at Chelsea ATE	7
6	Conclusions	8
7	References	9

I Introduction

- 1.1 At the request of BT Cellnet, a risk assessment of the use of a mobile phone base station at Chelsea ATE has been carried out.
- 1.2 BT Cellnet are proposing to install new transmitters at Chelsea ATE (cell reference 9051) and in support of their proposal they have provided details of the power output and spatial distribution of the signal from their antenna installations, and drawings of the site and location.
- 1.3 Their data were used to calculate the maximum power density in the vicinity of the base station. This was then compared with the guidance provided by the National Radiological Protection Board (NRPB) and the International Commission on non-ionising radiation (ICNIRP) on this subject. The NRPB is the UK advisory body on the safety of non ionising radiation.

2 Operation of mobile phone base stations

- 2.1 Mobile phone base stations are low power radio transmitters with antennae mounted on either metal towers or buildings. Radio signals are fed from transmitters through cables to the antennae and the then launched as radio waves into the area or cell around the base station. Two types of antennae are used for transmission; pole shaped antennae are used to communicate with mobile telephones and dish antennae communicate to other base stations and link the network together.
- 2.2 The transmissions from any particular base station are variable and dependent upon the number of calls and the number of transmitters in operation. In general the following points are relevant to the exposure of people to radio waves emitted by base stations.
 - The antennae are the sources of the radiated signals and operate at power levels consistent with their aim of communicating over short distances. Typical power levels are not more than a few tens of watts.
 - The power is radiated in beams which are essentially directed towards the horizon with a slight downward tilt.

- The beams from the antennae tend to spread out with distance and will be incident at ground level at distances of greater than a few tens of metres from the antennae. The radio wave levels at these distances are much reduced from those directly in front of the antennae and should be below guideline levels.
- There may be regions within a few metres directly in front of the antennae where radio wave levels can exceed guidelines. These regions should be designated as exclusion zones and access to them strictly controlled.
- Radio wave levels in regions normally accessible to the public should be below, and usually well below, guideline levels.

Emissions from dishes (as opposed to pole antennas) are designed to provide line of sight links and have narrow directional beams which should not come into contact with publicly accessible areas.

- 2.3 All mobile phone networks in the UK currently operate to a standard known as Global System for Telecommunications (GSM) which employs digital technology. An earlier, analogue system is still in use but is being phased out over the next few years. A third generation of mobile telecommunications technology is now being installed, known as Universal Mobile Telecommunication System (UMTS). This application concerns the installation of both GSM and a third generation (3G) transmitters.
- 2.4 GSM uses two frequency bands. Vodafone and Cellnet use GSM 900 base stations operating close to 940 MHz, and Orange, Cellnet and One 2 One use GSM 1800 operating close to 1840 MHz. UMTS operates at 1885 – 2010 MHz and 2110 – 2200MHz.

3 Health precautions

- 3.1 There is consensus amongst international bodies that exposure guidelines for radio waves should be set to prevent adverse health effects caused by either whole or partial body heating. Some of the energy in the radio waves emitted by mobile phones is absorbed in the head of the user, mostly in superficial tissues. Exposure guidelines relevant to mobile phones are therefore expressed in terms of absorbed energy in a small mass of tissue in the head. The limit for exposure of the head adopted by the UK government is 0.1 watt absorbed in any 10g of tissue (time averaged over 6 minutes). Calculations show that this could result in a maximum rise in temperature of less than 1°C in the head even after prolonged exposure. It is worth noting that the user of a mobile phone receives a far greater localised exposure from the phone itself than general exposure from a nearby base station.
- 3.2 At positions where the public are normally exposed to fields from base station antennae exposure is more likely to be more uniform over the whole body. The restriction averaged over the whole body mass is 0.4 watts per kilogram (time averaged over 15 minutes). The radio waves produced by transmitters are sufficiently weak that the guidelines can only be exceeded if a person is able to approach to within a few metres directly in front of the antennae.
- 3.3 Concerns about other, so-called athermal, effects arising from exposure to mobile phone frequencies have also been raised. These include the suggestions of subtle effects on cells that could have an effect on cancer development or influences on electrically excitable tissue that could influence the function of the brain and nervous tissue.
- 3.4 Radio waves do not have sufficient energy to damage genetic material (DNA) in cells directly and cannot therefore cause cancer. There have been suggestions that they may be able to increase the rate of development of cancer. However, the evidence from biological studies on possible effects on tumour promotion or progression, including work with experimental animals, is not convincing. Further research into all these areas is however needed and is currently being undertaken.
- 3.5 In May 2000 the Independent Expert Group on Mobile Phones, chaired by Sir William Stewart, issued its report on mobile phones and health (Ref 1). The conclusions of the expert group were many and far ranging but in relation to health they may be summarised as follows:

- The balance of evidence to date suggests that exposures to RF radiation below NRPB and ICNIRP guidelines do not cause adverse health effects to the general population.
- There is scientific evidence which suggests that there may be biological effects occurring at exposures below these guidelines, although this does not necessarily mean that these effects lead to disease or injury.
- In view of this they recommend that a precautionary approach be taken until more detailed and scientifically robust information on any health effects becomes available.
- As a precautionary approach it is recommended that The ICNIRP guidelines for public exposure be adopted for use in the UK rather than the NRPB guidelines.

These are shown in the following table.

Power density restrictions(Wm^{-2}) advised by NRPB and ICNIRP guidelines

Guidelines	GSM 900 (BT Cellnet GSM)	GSM 1800	UMTS 2110 (BT Cellnet 3G)
NRPB (all people)	35	100	100
ICNIRP occupational	23	45	50
ICNIRP public	4.6	9	10

4 Calculation of exposure

- 4.1 Several different approaches to the calculation of the exposure of a person in the vicinity of a transmitting antenna are possible. In general, the simpler the calculation approach used, the more conservative will be the outcome and the greater the compliance distance that will result.

- 4.2 The simplest approach is what is known as a far field power density calculation (Ref.2). If the total power fed into an antenna, and the antenna gain are known, it is possible to calculate power density in the main beam by assuming an inverse square law dependence upon distance at all distances from the antenna. This will overestimate power density in directions other than the main beam because the antenna gain is less in these directions. It will also overestimate power density at short distances generally within 10 metres of the antenna. Thus the following equation may be used to calculate the power density S

$$S = \frac{P_{\text{rad}} G}{4\pi d^2}$$

where d is the distance from the antenna, P_{rad} is the total radiated power and G is the antenna gain.

- 4.3 If the detailed electrical structure inside an antenna is known, a much more precise calculation of power density becomes possible, known as a near field calculation. This also enables a much more precise calculation of the variation in power density at all distances and in all directions.
- 4.4 The most rigorous method of calculating exposure is by direct evaluation of SAR. This may be accomplished by setting up a computer model of the antenna and of the human body and counting fully for the electromagnetic coupling between them.
- 4.5 Both of these last two methods require a detailed knowledge of the structure of the antenna which is not generally available, and in the case of the latter, a sophisticated computer model.
- 4.6 This assessment is therefore based upon the far field method and, although the results may not be as accurate as other methods, they will always tend to overestimate exposure and thus err on the side of caution.

5 BT Cellnet base station at Chelsea ATE

- 5.1 BT Cellnet have provided the following information regarding their network generally and the proposed installation in Chelsea ATE specifically.

5.2 According to this information schedule, the current proposal will involve the installation of antennas which will be located on the roof. These will be connected to transmitters housed in a cabin on the roof. The cabins do not emit any radiation themselves. They are screened to prevent the passage of radio waves in order to minimise the possibility of interference with the signal.

5.3 The 'worst case' maximum operating power of each antenna element has been provided by BT Cellnet and is given in the following table:

Sector	No Channels	Frequency MHz	ICNIRP Limit	Max EIRP	mWatts/Ch	Watts Total	Distance squared	Combined exclusion zone (metres)
1	4	900	4.6	53	199526.23	798.10	13.81	
1	2	1800	9	53	199526.23	399.05	3.53	
1	2	2110	10	50	100000.00	200.00	1.59	
Sum							18.93	4.35

5.4 Application of the far field exposure equation given in 4.3 shows that the distance from the front of any antenna beyond which the ICNIRP public exposure guideline will not be exceeded is 4.35 metres. This figure takes into account the emissions from all the Cellnet antennas in that sector.

5.5 Further information supplied regarding elevation and azimuthal radiation patterns indicates that the power densities in other directions to each side, above and below and behind the antenna will be considerably less .

5.6 For example the majority of the power in the beam from each antenna may be considered to be projected out from the antenna with an angular dispersion of 10° in the vertical (elevation) plane and 120° in the horizontal (azimuthal) plane. Outside these limits the power and hence the corresponding segregation distance will be considerably reduced. At an elevation angle of 20 ° the power density is reduced by a factor of 50 and at an azimuthal angle of 90° by a factor of 100. Immediately behind the antenna the power density is reduced by a factor of 1000.

5.7 The antennas are mounted at a height of approximately 20 m above ground level. The nearest adjacent building is in excess of 4.35 metres distant. Since the antennas are designed to project out into free space from the sides of the building it is difficult to conceive of a situation where any maintenance worker could be exposed to the beam.

- 5.8 It is recommended that access to the roof is restricted and that an appropriate safety sign is to be placed on the access door. Access to sites should be restricted to authorised personnel only. If access to the restricted zone is required, there ought to be a procedure for the relevant Network Management Centre to switch off the RF source.
- 5.9 It is noted from the plans that there are no publicly accessible areas within 4.35 metres of the antennas and the nearest occupied area is considerably further away. No member of the public will therefore receive an exposure in excess of the ICNIRP level and at ground level or in nearby tall buildings the exposure would be several orders of magnitude lower.

6 Conclusions

- 6.1 The combined power density of all the radio waves beyond 4.35m in front of the antennas will be below the NRPB guidance level of 100Wm^{-2} , and the ICNIRP guidance level for public exposure of 10Wm^{-2} . The plans of the installation show no publicly accessible areas within 4.35m of the antennas.
- 6.2 Provided the access to the antennas is controlled by some physical means eg a locked off area, fences, barriers etc. and safety signs in accordance with the operator's safety documents are displayed, the safety of the public should not be compromised.

7 References

1. Mobile Phones And Health, The Independent Expert Group On Mobile Phones, Chairman Sir William Stewart
2. Exposure To Radio Waves Near Mobile Phone Base Stations, S M Mann, T G Cooper, S G Allen, R P Blackwell, A J Lowe; NRPB-R321

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