

Agenda item:

Statutory Advisory Committee Urgency Sub-Committee On 12th September 2006

Report Title: **Planning and listed building consent – Alterations to transmission mast**

Report of: **David Loudfoot, Facilities Manager**

1. Purpose

1.1 To advise the committee of an application by National Grid Wireless to install two new colinear antennas on the existing transmission mast.

2. Recommendations

2.1 That the committee considers the application and decides what advice, if any, it wishes to provide to the board of trustees regarding this planning application.

Report Authorised by: **David Loudfoot, Facilities Manager**.....

Contact Officer: **David Loudfoot, Facilities Manager, Alexandra Palace & Park, Alexandra Palace Way, Wood Green N22 7AY Tel No. 020 8365 2121**

3. Executive Summary

3.1 This report details the planning and listed building application made on 4th September 2006 by National Grid Wireless on behalf of VDO Siemens and London buses to add two new antenna to the mast.

4. Reasons for any change in policy or for new policy development (if applicable)

4.1 N/A

5. Local Government (Access to Information) Act 1985

5.1 No specific background papers, other than those appended, were used in compiling this report.

6. Description

- 6.1 The mast at Alexandra Palace is used for various communications transmission facilities and is leased to National Grid Wireless (formerly Crown Castle Limited).
- 6.2 London buses wish to enhance their radio system and to do so requires the addition of two new antenna on the mast together with equipment rack alterations in the internal rooms on the 5th floor of the South East tower.
- 6.3 The charity received notice of the intended planning application on behalf of Siemens VDO Trading Ltd and London Buses from National Grid Wireless on 4th September.
- 6.4 National Grid Wireless submitted the planning application documentation to the London Borough of Haringey, Planning Service on the 4th September 2006.
- 6.5 The planning and listed building consent application is attached as appendix 1.
- 6.6 The planning process allows for a period of 21 days consultation for interested parties to express their views on the application to the planning authority prior to determination.

7. Consultation

- 7.1 This report forms part of the trustees process of seeking advice from the Advisory Committee under the Alexandra Park and Palace Act 1985. The planning process invites comment from a much wider group of interested parties who should also put forward comments within 21 days post 4th September 2006.

8. Recommendations

- 8.1 That the committee considers the application and decides what advice, if any, it wishes to provide to the board of trustees regarding this application.

9. Legal and Financial Implications

- 9.1 The local authorities' Director of Finance and the trust Solicitor have been sent copies of this report.

10. Equalities Implications

- 10.1 There are no perceived equal opportunities implications in this report.

11. Use of Appendices/Tables/Photographs

- 11.1 The planning application is presented as appendix 1.

Appendix 1

ZH 8567 8529 2GB

Chief Planning Officer
Planning, Environment Policy
& Performance
Haringey Council
639 High Road
Tottenham N17 8BD

Duncan Fox
Town & Country Planning Manage
Duncan.Fox@ngridwireless.com
Direct tel +44 (0) 1707 624508
Direct fax +44 (0) 1707 624511
Mobile +44 (0) 7753 775791

4 September 2006
Our Reference DF/70321
Your Reference

www.nationalgrid.com/wireless

Dear Sir,

**SIEMENS VDO TRADING LIMITED ON BEHALF OF LONDON BUSES
ALEXANDRA PALACE, ALEXANDRA PARK, WOOD GREEN, LONDON, N22
SUBMISSION OF PLANNING AND LISTED BUILDING CONSENT
APPLICATIONS**

Following the prior consultation in connection with the above, on behalf of Siemens VDO Trading Limited and London Buses, we submit herewith applications for planning permission and listed building consent for the installation of electronic communications apparatus at the above site. We accordingly enclose the following:

- i The requisite numbers of your completed planning and listed building consent application forms.
- ii The requisite numbers of an O.S. site plan scale 1:2500 and referenced 15590.2.05/2 showing the red line area.
- iii Drawing nos. 15590.2.05/2 – Area & Site Location Maps
 P15590_30_100_M03_03 – Proposed south East
 Elevation
 P15590_30_150_M03_03 – Site Plan Proposed
 P15590_30_160_M03_03 – Proposed Headframe Details
- iv The relevant certificates of land ownership.

- v A cheque in the sum of £265 in respect of the appropriate planning application fee.
- vi Your sustainability checklist.
- vii Brochure documentation from London Buses titled 'iBus Informing you every stop of the way'.

Background

London Buses are investing in a new communications network required in connection with the efficient operation of its fleet. Enclosed is an information brochure on the project, which explains that Siemens VDO Ltd were awarded the contract to provide the network in April 2005. The project is intended to provide enhanced communications between bus controllers, bus drivers and customers resulting in a number of key benefits to include:

- more reliable services;
- precise real-time information on board buses with the new 'on board next stop' visual displays and audio announcements. Access to valuable information, such as next stops, will be of particular benefit to passengers with disabilities, infrequent travellers or passengers facing language barriers;
- Improved countdown predictions at bus stops;
- better capability for response to emergencies by authorities as the location of all buses can be monitored at all times;
- future applications support using new technology to communicate real-time passenger information.

The system will allow bus drivers to communicate with central controllers by hands free radio telephone in the event of an emergency.

The Application Proposals

As part of the new communications network, the applicant has a requirement to install relatively minor electronic communications apparatus at Alexandra Palace both on the existing mast and within the existing internal equipment room. This includes;

- Two colinear antennas to be located on the mast. These are slender 'whip' type antennas supported by two small steel support poles. The antennas will be located on the mast at heights of approximately 55.8m and 62.8m above ground level.
- Four small equipment cabins located within the existing internal radio equipment room. Planning permission is not required for this element of the

development. It is also respectfully suggested that as the cabinets will not prejudice the special interest of the listed building, listed building consent is also strictly not required, but sought in this case for completeness.

- Ancillary development mainly consisting of feeder cables to link the proposed antennas and radio equipment contained within the internal room.

Planning Policy Considerations

Government policy, set out in PPG8, is to facilitate the growth of new and existing communications systems, whilst keeping the environmental impact to a minimum. Particular emphasis is placed on the well-established national policies for the protection of the countryside and urban areas. Planning Authorities are encouraged to respond positively to proposals for communications development and to understand the special problems and technical needs. In order to keep the environmental impact to a minimum Government attaches considerable importance to keeping the number of radio and telecommunications masts and of the sites for such installations to the minimum. Accordingly, it attaches considerable importance to the use of existing masts and buildings in advance of proposals for new masts.

Sustainability lies at the heart of Government policies and the thrust of the advice contained within PPG13 – Transport, is to influence the pattern of development to make it safer and easier for people to access jobs, shopping, leisure facilities and services by public transport. Closely allied to this is the need for a modern, safe and efficient public transport network and this lies at the heart of the application proposals.

In formulating their proposals the applicants have also had regard to the policies contained within the adopted Unitary Development Plan (the UDP). These echo Government policy set out above and specific to the current application these;

- seek to ensure that developments preserve or enhance the historic character and qualities of conservation areas – Policies CSV1 and CSV5;
- seek to preserve or enhance the character and appearance of listed buildings – Policies CSV2 and CSV4;
- seek to conserve and enhance historic parks, gardens and landscapes – Policy OS7;
- support the continued development of the London bus network – Policy M2; and,
- permit telecommunications apparatus where they would not significantly damage the visual quality, landscape or setting of the area including environmentally sensitive areas and buildings – Policy UD11.

The current proposals are minimal in size and nature and have been designed and sited so as to accord with Government and local planning policy. First and foremost, the proposed antennas would be located on an existing mast located on an existing

building and in this respect the application is in accordance with national policies aimed at sharing existing structures and reducing the demand for new masts.

To satisfy the applicant's requirements, two slender antennas would be located on the mast at heights of 55.8 and 62.8m above ground level. They will be of very similar design and appearance to existing antennas already located on the mast. Given their limited size and siting against the backdrop of the existing mast, the antennas will preserve the character and appearance of the conservation area and the listed building and will have no adverse impact upon the historic parkland at Alexandra Palace.

The required radio equipment will be located within the internal equipment room and will have no impact upon the character of the building and area. Finally, the feeder cables will run along existing cable trays and again will not be a visible feature.

Having regard to the above, it is our firm opinion that the development will be in complete accordance with the national and local planning policy framework that applies. Furthermore, at the heart of the proposals is the desire for a modern, efficient and safe public transport network for all sections of the community. This will be enhanced by the application proposals for the reasons set out in the supporting document 'iBus Informing you every stop of the way'. This is in accordance with Policy M2 of the UDP that supports the continued development of the London bus network including the provision of enhancements to existing bus services.

Design and Access Statement

Whilst the detailed design has been formulated to satisfy the applicant's technical requirements, careful attention has been given to the architectural and historic interest of both the palace and conservation area. In this case and to satisfy the requirements, only two very slender 'whip antennas are proposed. These have been designed and sited to match existing antennas and to be seen against the backdrop of the existing substantial mast. In order to reduce impact, all radio equipment will be located within the existing radio equipment room and the feeder cables will run along existing cable trays.

Accordingly the proposals will preserve the special interest of the listed building, conservation area and historic park and importantly will obviate the need for a new mast in the area that would have a far greater environmental impact.

The access arrangements to the site are unchanged and it is stressed that access to the site is strictly limited to authorised personnel.

ICNIRP Certification

The proposed apparatus is not for a mobile phone base station. As such there is no requirement to provide an ICNIRP certificate under policy guidance. Nevertheless, we confirm that all installations on sites owned or controlled by National Grid

Wireless are designed to meet the ICNIRP guidelines, and should you consider that certification in this case would nonetheless be helpful, please let us know.

Conclusion

Best practice clearly requires the provision of full supporting information and we trust the supporting material submitted in fulfilment of this assists the determination of the applications. However, if you do require any clarification please let us know.

We would be willing to meet to discuss the merits of the applications or to assist with any visits of the site and surrounding area and if that would help, please let us know.

We trust everything is in order, but if you do require any further information or clarification, please do not hesitate to contact Duncan Fox, our Town & Country Planning Manager, whose contact details are set out above.

Yours faithfully,

Natone Grid Wireless

NATIONAL GRID WIRELESS

Town & Country Planning Act 1990

Planning Application Form TP1 - Part 1

FOR OFFICE USE ONLY	
Ref	Date Received / /
Receipt no.	Fee
Cheque/PO/Cash	

1 Applicant Please use BLOCK CAPITALS

Name	SIEMENS VDO TRADING LTD AND LONDON BUSES.
Address	C/O AGENT
Postcode	
Tel no.	

Agent

Name	NATIONAL GRID WIRELESS FAO DUNCAN FOX
Address	BROOKMANS PARK TRANSMITTER STATION
	GREAT NORTH ROAD
	BROOKMANS PARK, HAIFIELD
Postcode	AL9 6NR
Tel no.	01707 624508

2 Address or location of application site Please outline in RED on location plan

ALEXANDRA PALACE, ALEXANDRA PARK, WOOD GREEN LONDON, N22 7BS	
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Site area in hectares/m². 625 ha/m²
APPROX

Does the applicant own or control any adjoining land?
If yes, please outline in BLUE on location plan. YES NO

3 Description of proposed development

INSTALLATION OF TWO COLINEAR ANTENNAS ON EXISTING MAST, EQUIPMENT CABINS IN EXISTING INTERNAL RADIO EQUIPMENT ROOM AND DEVELOPMENT ANCILLARY THERETO	
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What is the present use of land or buildings? If vacant, give last known use and when use ceased.

COMMUNICATIONS MAST ON EXISTING PALACE	
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Does the proposal involve any of the following?

- A) New building(s) or extension(s) to existing building(s).
If yes, what is the gross floor area of the proposed building(s)? YES NO

N/A Ha/m²
- B) Change of use
If yes, what is the gross area of land or building(s) affected by proposed change of use? YES NO

Ha/m²
- C) Alterations involving new floors pace YES NO
- D) Construction of a new access to a highway YES NO
- E) Alterations to an existing access to a highway YES NO
- F) The loss or felling of any trees
If yes, please show precise location on the plans. YES NO

4 Type of application

A. Full planning application.

YES NO

B. Outline planning permission.

If yes, please tick those matters for which approval is reserved for future consideration.

YES NO

Siting

Access

Design

External appearance

Landscaping

C. An application for the removal or alteration of a condition on previous permission.

YES NO

If yes, please state previous application number.

D. An application for renewal or continuation of permission.

YES NO

If yes, please state previous application number.

E. An Application for the retention of works or continuation of use commenced without permission.

YES NO

5 Plans and drawings submitted with this application

Please list all plans and drawings forming part of this application.

15590-2-0512 - AREA + SITE LOCATION MAP
P15590-30-100-M03-03 - PROPOSED SOUTH EAST ELEVATION
P15590-30-150-M03-03 - SITE PLAN PROPOSED
P15590-30-160-M03-03 - PROPOSED HEADFRAME DETAILS

Please specify, if appropriate, type and colour of materials proposed here and on your plans.

TWO METAL COLINEAR ANTENNAS ON STEEL SUPPORT POLES
EQUIPMENT CABINETS IN EXISTING RADIO EQUIPMENT ROOM.

6 Declaration

I/ We hereby apply for planning permission to carry out the development described in this application and the accompanying plans and drawings.

Signed

[Signature]
NATIONAL GRID WIRELESS
SIEMENS V20 TRADING LTD
behalf of AND LONDON BUSES

Date 4 SEPTEMBER 2006

7 Certificate A - Ownership

A OWNER is any person who owns the freehold, or has a lease with at least seven years remaining on ANY PART of the application site. If you are the SOLE OWNER of the whole site complete certificate A below.

Certificate A

Under Article 7 of the Town and Country Planning (General Development Procedure) Order 1995 I certify that:

- 21 days before the date of this application nobody, except the applicant, was the owner of any part of the land to which this application relates.
- None of the land to which the application relates is, or is part of, an agricultural holding.

Signed

On behalf of

Date

8 Certificate B

This is to be completed if you are NOT the sole owner of the application site and is to confirm that you have given the requisite notice to all owners. An example of how to give notice is on the back of this form.

I certify that

1. I have/ the applicant has given the requisite notice to everyone else who, on the day 21 days before the date of the accompanying application, was the owner of any part of the land to which the applicant relates as listed below.

Owners name	ALEXANDRA PALACE CHARITABLE TRUST
Address at which notice served	ALEXANDRA PALACE, ALEXANDRA PALACE WAY, WOOD GREEN, LONDON N22 7AY

Date notice served	4 SEPTEMBER 2006
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2. None of the land to which the application relates is, or is part of, an agricultural holding.

Signed	Duneen Tok NATIONAL GRID WIRELESS
On behalf of	SIRHENS VDO TRADING LTD AND LONDON BUSES

Date	4 SEPTEMBER 2006
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Checklist

Please use this list to check that your application for planning permission has been completed correctly.

Have you provided 4 copies of plans for each separate application showing clearly and accurately, to a metric scale, the existing site or building (including uses) and what changes you intend to make?

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Have you provided 4 copies of a location plan, drawn to scale with the site outlined in red and any other land in the same ownership outlined in blue?

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Have you provided enough information, including good quality photographs, of the site so that your proposals can be fully understood?

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Have you signed, dated and fully completed 4 copies of the application form for each separate application?

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Have you given full information on who owns the land involved? Have the correct notices been served the owners (if there are other owner's apart from the applicant)?

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Is the correct fee attached? (See separate list of fees available on request). If no fee is payable please state the reason for exemption here.

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YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Have you filled out the Sustainability Checklist from the Supplementary Planning Guide 9 and the ~~Equalities form?~~

YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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Please note that if you cannot tick all the questions above your application is probably incomplete and cannot be dealt with if submitted.

We advise you to fill out the Sustainability Checklist from the Supplementary Planning Guide 9 to ensure your development is environmentally friendly. Please also complete the Equalities form, which allows us to monitor the service we provide.

If you require any help in filling out this form contact Development Control 020 8489 5508

When complete send this form plus:

4 copies of all drawings and plans

To: Planning, Environmental Policy and Performance
639 High Road
Tottenham
London N17 8BD

HARINGEY SUSTAINABILITY CHECKLIST

To accompany all applications for planning permission, listed building consent and conservation area consent
 N.B. THIS FORM IS IN TWO PARTS

PART A: Question Nos. 1 - 20 - to be answered for ALL APPLICATIONS (including major ones)

PART B: Question Nos. 21 - 27 ADDITIONAL questions for MAJOR APPLICATIONS ONLY
 A major application is one which is for 10 or more dwellings or where the proposed floorspace exceeds 1000 sq. m. or if the site is 1 hectare or larger

PART A: ANSWER THESE QUESTIONS FOR ALL PLANNING AND LISTED BUILDING APPLICATIONS

Sustainability Issue	UDP Policy/SPG	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use
		State how you have taken this into account or if not, or not applicable, state why not		Case No. HG/ / Officer's comment
SC1 Environmental Pollution Air Quality Does the scheme provide for or encourage non high emission road vehicles e.g. bicycles, electric cars etc? If new housing is proposed will energy efficient condensing boilers be installed?	UD1 - 2, ENV6, M3 - 4 & M7; SPG7c, SPG8c, & SPG8i; PPG23	<input type="checkbox"/>	NOT APPLICABLE	
SC2 Environmental Resources/Pollution Noise/Fumes/Light/Glare & Land Contamination Is disturbance from noise, fumes, chemicals, solvents, or other pollutants avoided? Can external artificial lighting cause problems? Can materials cause glare? Is the land potentially contaminated and if so has a site investigation been carried out?	UD2, ENV5, ENV7, EMP6, TCR1 & TCR5; SPG6c, SPG8b, SPG8c, SPG8e & SPG8f; PPG23 & 24	<input type="checkbox"/>	NO CONTAMINATION GENERATED	
SC3 Environmental Resources/Pollution Waste Storage & Recycling Facilities Is provision made for external and internal storage for waste separation/collection and recycling? If the scheme is large, has a waste management plan been provided?	UD6 & ENV8; SPG8a	<input type="checkbox"/>	NO WASTE GENERATED BY THE DEVELOPMENT	
SC4 Environmental Resources Solar Design & Renewable Energy Is the siting, layout and design of the scheme maximising the potential for (on site and adjoining) daylighting, passive solar gain and natural ventilation? Are there any photovoltaic (PV) or solar panels?	ENV6; SPG8c; PPG22 & Annex	<input type="checkbox"/>	NOT APPROPRIATE	
SC5 Environmental Resources Efficient Use of Land and Buildings Are existing buildings to be reused or if redeveloped will the buildings be more sustainable than those existing? Will there be a sharing or mix of uses on the site?	UD5, EMP5, EMP7 & CW1; PPG3	<input checked="" type="checkbox"/>	EXISTING MAST AND RADIO EQUIPMENT ROOM TO BE REUSED	

Sustainability Issue	UDP Policy/ PPG etc	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use Officer's comment
		State how you have taken this into account or if not, or not applicable, state why not		
SC6 Environmental Resources Sustainable Materials Is provision made for reusing reclaimed materials or those which have been recycled, and or/easily replaceable without harm to the environment?	ENV6; SPG8b	<input type="checkbox"/>	NOT APPROPRIATE	
SC7 Environmental Resources Sustainable Drainage & Water Conservation What measures for water conservation are being made? Is provision made for sustainable drainage systems, grey water recycling or rainwater harvesting? If new development is proposed, has a drainage impact assessment been provided?	ENV1-2; SPG8b, SPG9 Appendix1: PPG23 & PPG25	<input type="checkbox"/>	NOT APPROPRIATE	
SC8 Environmental Resources Trees/Landscape What provision is made for existing/new trees and has a landscape scheme (Including survey of existing trees) been submitted?	UD3, OS6 & OS16; SPG8d	<input type="checkbox"/>	NO - NOT APPLICABLE	
SC9 Environmental Heritage/Resources Biodiversity & Ecological Heritage Is provision made for natural wildlife, which includes plants/habitat, retention and creation?	UD3, OS5, OS10; SPG8d & SPG8g; PPG9	<input type="checkbox"/>	NO - NOT APPLICABLE	
SC10 Environmental Heritage Listed Buildings & Locally Listed ones Does the scheme affect the character appearance of any historic building or structure on the site or adjoining the site or the setting of a listed building? Is a locally listed building affected?	CSV1 - 3, CSV5; SPG2; & PPG 15	<input checked="" type="checkbox"/>	YES - IMPACT MINIMISED BY USE OF EXISTING MAST, MINOR NATURE OF DEVELOPMENT AND CAREFUL SITING	
SC11 Environmental Heritage Conservation Area & Other Built Heritage Is there an impact on the character or appearance of a conservation area or an adjoining one? Is a site of archaeological importance or industrial heritage affected?	CSV1 - 5, SPG2; PPG15 & PPG 16	<input checked="" type="checkbox"/>	AS ABOVE - CHARACTER AND APPEARANCE OF CONSERVATION AREA PRESERVED.	

Sustainability Issue	UDP Policy/ PPG etc	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use
		State how you have taken this into account or if not, or not applicable, state why not		Officer's comment
SC12 Environmental/Social Other Quality of Life Urban Design Quality, Views & Public Art Does the scheme have a positive visual impact on the immediate local/wider area and views? Is this supported in an accompanying urban design statement? Is there to be a Percent for Arts contribution?	UD1, UD3 - 4; SPG1a - 1c, PPG1, PPG8 & PG22	<input type="checkbox"/>	NOT APPLICABLE	
SC13 Social Other Quality of Life Designing out Crime and Designing for Privacy Does the design of the development unduly affect the safety of users? Is privacy safeguarded in a way which does not compromise safety?	AC3 - 4, UD2 - 3; SPG3b & SPG5	<input checked="" type="checkbox"/>	DEVELOPMENT WILL ENHANCE SAFETY AND CONVENIENCE OF BUS USERS	
SC14 Social/Economic Other Quality of Life Accessed By All Will pedestrians be able to move safely around the site? Is access to all parts of the scheme possible by those who are frail, are in a wheelchair, pushing a pram or otherwise mobility impaired?	UD2 & M3; SPG4 & SPG7b	<input checked="" type="checkbox"/>	NO IMPACT ON MOBILITY OF VISITORS TO SITE	
SC15 Environmental/Social Other Quality of Life Open Space Is there to be a loss or gain in public formal/ informal open space or openness of Green Belt or Metropolitan Open Land?	AC1, AC3 - 4, OS1 - 4, OS7 - OS9, OS14; SPG10 & SPG13	<input checked="" type="checkbox"/>	NO LOSS OF OPEN SPACE	
SC16 Social Other Quality of Life Affordable Housing If this is a housing scheme, will there be any "affordable" housing contribution?	HSG4 & EMP7; SPG10 & SPG11; PPG3	<input type="checkbox"/>	NOT APPLICABLE	
SC17 Social/Economic Other Quality of Life Education/Health Facilities Will there be a potential affect on the demand or provision for school places, health services such as GPs?	UD10, CW2; SPG10, SPG12 & SPG17; PPG1 & PPG12; Circular 1/97	<input checked="" type="checkbox"/>	NO	

Sustainability Issue	UDP Policy/ PPG etc	Tick box if you have taken this into account		Office Use Officer's comment
		<input type="checkbox"/>	<input type="checkbox"/>	
SC18 Leisure & Cultural Social/Economic Quality of Life Other Facilities Is a leisure (e.g. a cinema an allotment etc) or cultural facility lost or gained?	OS8, OS11 - 12, CCT1 - CCT5; SPG10 & SPG17; PPG17	<input checked="" type="checkbox"/>	NO	
SC19 Local Shops/Services Social/Economic Quality of Life Other Will there still be an appropriate range of local shops and services to meet local needs?	TCR3 & 4; PPG 6	<input type="checkbox"/>	NOT APPLICABLE	
SC20 Jobs & Training Social/Economic Quality of Life Other Will local access to temporary and/or permanent jobs be lost or provided? Will there be opportunities for training local underqualified labour?	AC1 -2, UD10, EMP 1 - 3 & EMP 5; SPG10; PPG 4	<input checked="" type="checkbox"/>	NO IMPACT ON JOBS OF TRAINING	

PART B: ANSWER THE FOLLOWING ADDITIONAL QUESTIONS FOR MAJOR SCHEMES ONLY

(Major schemes, for this purpose, are for 10 or more dwellings or where the proposed floorspace exceeds 1000 sq. m. or if the site is 1 hectare or larger).

SC21 Other Renewable Energy Environmental Resources Has an energy assessment been provided? In addition to those matters mentioned under item 4 above, will there be any other forms of renewable energy (CHP, windmills etc)?	UD1 & ENV6; PPG22 & Annex	<input checked="" type="checkbox"/>	NO	
SC22 Demands for Public Transport Is the nature of the scheme such that it could generate increased demand for public transport facilities?	UD10; SPG7d, SPG10 & SPG14	<input checked="" type="checkbox"/>	NO	
SC23 Major Trip Generating or more than 1000 sq. m Is a traffic impact assessment required and if so, provided? Is a travel plan required? Is an air quality statement (air quality impact assessment) required and if so, provided?	UD1; SPG7d & SPG8i; PPG13	<input checked="" type="checkbox"/>	NO TRIPS WILL BE GENERATED BY DEVELOPMENT	

Sustainability Issue		UDP Policy/ PPG etc	<input checked="" type="checkbox"/> Tick box if you have taken this into account	Office Use
		State how you have taken this into account or if not, or not applicable, state why not		Officer's comment
SC24 Environmental Pollution/Resources	Environmental Impact Assessment (EIA) If the proposal is for a development for which an EIA is required has a decision on scoping been submitted?	UD1; SPG8h; EIA Regs 1999; Circ. 02/99; EC Directive	<input checked="" type="checkbox"/>	EIA NOT REQUIRED
SC25 Economic/Social/ Environmental Other Quality of Life	Out of Town Centre Large Retail & Leisure If the proposal is for a scheme of more than 2500 sq.m and is outside a town centre, has a retail or leisure impact assessment been provided?	UD1 & TCR2; SPG7d & SPG8i; PPG 6	<input checked="" type="checkbox"/>	NOT APPLICABLE
SC26 Environmental Other Quality of Life/Resources	Tall/Large buildings Is the site appropriate for a tall building? Have verified views been submitted showing the impact on local views and, if appropriate, views of St Paul's? Are adjoining solar rights affected? Does the ground floor contribute to the public realm?	AC1 & AC2; UD1, UD3, UD4, UD10 & UD11; SPG1a & 1c, SPG3a & 3b, SPG7c & 7d, SPG8a - 8i, SPG10 - 14	<input type="checkbox"/>	NOT APPLICABLE
SC27 Economic Other Quality of Life	Crèches/Nurseries & Other Community Benefits If the scheme is commercial and over 1000 sq.m, will there be other community benefits such as an associated crèche or nursery facility provided for the workforce on or near site?	UD10 & CW2; SPG10 & SPG17	<input type="checkbox"/>	NOT APPLICABLE

THANK YOU FOR COMPLETING THIS FORM
PLEASE RETURN WITH YOUR PLANNING OR LISTED BUILDING APPLICATION FORM

YOUR COMMENTS HERE ON THIS CHECKLIST WOULD BE APPRECIATED!

1. Did you find the checklist easy to use and understand?
YES/NO (please delete as appropriate)

If NO, why not?

2. Any other comments on the checklist?

Town & Country Planning (Listed Building & Conservation Areas) Act 1990

Planning Listed Building & Conservation Areas Regulations 1990

FOR OFFICE USE ONLY

Ref _____ Date Received / /

Receipt no. _____ Fee _____

Cheque/PO/Cash _____

ZH 8567 8526 1GB

Application For Listed Building Consent /Conservation Area Consent

You are reminded that approval may also be required under Building Regulations and/or the Town & Country Planning Act 1990

1 Applicant Please use BLOCK CAPITALS

Name	SIEMENS VDO TRADING LTD AND LONDON BUSES
Address	C10 AGENT
Postcode	
Tel no.	

Agent

Name	NATIONAL GRID WIRELESS F.A.O. DUNCAN FOX
Address	BROOKMANS PARK TRANSMITTING STATION
	GREAT NORTH ROAD
	BROOKMANS PARK, HATFIELD
Postcode	AL9 6NE
Tel no.	01707 624508

2 Address or location of application site Please outline in RED on location plan, with any adjoining land and/or building(s) which the applicant owns/controls edged in BLUE

	ALEXANDRA PALACE, ALEXANDRA PARK, WOOD GREEN,
	LONDON N22 7BB

3 Statutory List Grading of Building and/or Conservation Area within which the building is located.

List Grade:-

- I
- II*
- II

Conservation Area:-

ALEXANDRA PALACE AND PARK

4 Type of application Please tick appropriate box

Listed Building Consent

(ie: Application for works to a Listed Building)

Conservation Area Consent

(ie: Application for consent to demolish or part demolish an unlisted building in a Conservation Area)

5 Description of proposed development

	INSTALLATION OF TWO COLINEAR ANTENNAS ON EXISTING MAST, EQUIPMENT CABINS IN EXISTING INTERNAL RADIO EQUIPMENT ROOM AND DEVELOPMENT ANCILLARY THERETO.
--	---

What is the present use of land or buildings? If vacant, give last known use and when use ceased.

	COMMUNICATIONS MAST ON EXISTING PALACE
--	--

6 State the purpose for which the works are to be carried out

REQUIRED IN CONNECTION WITH NEW COMMUNICATIONS NETWORK FOR LONDON BUSES AIMED AT SECURING MORE RELIABLE SERVICES, PROVIDING PRECISE REAL TIME INFORMATION AND GREATER SECURITY.

If planning permission has been sought or granted for the carrying out of works to the building or for any change of use of the building or land within its curtilage, state the date and reference number of the application or permission

Date

Number

7 Description of the works to be carried out (as shown on plans & drawings listed in Question 9)

A. Describe any demolition (including demolition or removal of any part of the building)

NONE

B. Describe any alterations

THE ADDITION OF TWO SLENDER ANTENNAS ON THE EXISTING MAST TOGETHER WITH SUPPORTING STEELWORK AND ANCILLARY APPARATUS INCLUDING FEEDER CABLES, EQUIPMENT CABINS LOCATED IN EXISTING INTERNAL RADIO EQUIPMENT ROOM.

C. Describe any extensions

NONE

8 If proposals involve alterations and/or extensions state:

A. The types and colours of the materials and applied finishes to be used for the external surfaces of the walls and roofs of the new work.

THE PROPOSED ANTENNAS WOULD MATCH THE FINISH AND APPEARANCE OF THOSE EXISTING

B. The style, materials and colours of applied finishes to be used for windows, doors and other features

NOT APPLICABLE

C. The materials and finishes to be used for internal work

RADIO EQUIPMENT CABINS IN EXISTING RADIO EQUIPMENT ROOM. THESE WOULD BE FREESTANDING.

D. Effect on objects or structures fixed to the building or lying within its site

NO MATERIAL EFFECT ON MAST OR BUILDING.

9. Plans and drawings submitted with this application

Please list all plans and drawings forming part of this application.

10 Certificates

Please indicate which Section 11 Certificate is submitted with the application (see accompanying notes or consult the Planning Department)

- A B
- C D

11 Declaration

I/ We hereby apply for listed building consent/ conservation area consent to carry out the works described in this application and the accompanying plans and drawings.

Signed	<i>Dunca</i>
On behalf of	<i>NATIONAL GRID LIMITED SIEMENS VDO TRADING LTD AND LONDON BUSES</i>

Date	<i>4 SEPTEMBER 2006</i>
------	-------------------------

12 Section 11 Certificate

- If you are the sole owner of all the land to which the application relates complete Certificate A.
- If any part of the application extends beyond land in your exclusive ownership, complete Certificate B and send notice (in the form set out below) to each owner and indicate on the plans submitted who owns which part of the site. Leaseholders must serve notice on freeholders.
- If you know the names and addresses of some, but not all of the owners of the land to which the application relates, you should give notice in the form shown. The newspaper notice should be published not earlier than 20 days before the date of the application. You should then complete Certificate C.
- If you don't know the names and addresses of any of the owners of the land to which the application relates, you should give notice of the application in a local newspaper, in the form shown. This notice should be published not earlier than 20 days before the date of application. You should then complete Certificate D.
- Any person who knowingly or recklessly issues a certificate which contains any statement which is false or misleading in a material particular is liable on conviction to a fine not exceeding £100.

For the purpose of the certificate in this application "Owner" means any person having a freehold interest or a leasehold interest with at least seven years unexpired and "land" includes a building or buildings.

13 Certificate A - Ownership

A OWNER is any person who owns the freehold, or has a lease with at least seven years remaining on ANY PART of the application site. If you are the SOLE OWNER of the whole site complete certificate A below.

Certificate A

Under Article 7 of the Town and Country Planning (General Development Procedure) Order 1995 I certify that:

1. 21 days before the date of this application nobody, except the applicant, was the owner of any part of the land to which this application relates.
2. None of the land to which the application relates is or is part of an agricultural holding.

Signed
On behalf of

Date

14 Certificate B

This is to be completed if you are NOT the sole owner of the application site and is to confirm that you have given the requisite notice to all owners. An example of how to give notice is on the back of this form.

I certify that

1. I have/ the applicant has given the requisite notice to everyone else who, on the day 21 days before the date of the accompanying application, was the owner of any part of the land to which the applicant relates as listed below.

Owners name	ALEXANDRA PALACE CHARITABLE TRUST
Address at which notice served	ALEXANDRA PALACE ALEXANDRA PALACE WAY, WOOD GREEN, LONDON, N22 7AY.

Date notice served	4 SEPTEMBER 2006
--------------------	------------------

2. None of the land to which the application relates is, or is part of, an agricultural holding.

Signed	<i>[Signature]</i> NATIONAL GRID WIRELESS SIEMENS V20 TRADING LTD
On behalf of	AND LONDON BUSES.

Date	4 SEPTEMBER 2006
------	------------------

Notice to be served on owner

Planning (Listed Buildings and Conservation Areas) Act 1990 Notice for service on individuals

Proposal for:

Demolishing

Altering

Extending

Varying or discharging conditions

At the location of:

Name	EXISTING COMMUNICATIONS MAST AND INTERNAL EQUIPMENT ROOM
Address	ALEXANDRA PALACE, ALEXANDRA PARK, WOOD GREEN, LONDON
Postcode	N22 7BB

SIEMENS V20 TRADING
AND LONDON BUSES

TAKE NOTICE that application is being made to the London Borough of Haringey by

(name of applicant)

For:

Listed Building Consent

Conservation Area Consent

Varying or discharging conditions

Proposed works, variations or discharge:

INSTALLATION OF TWO COLINEAR ANTENNAS ON EXISTING MAST, EQUIPMENT CABINS IN EXISTING INTERNAL RADIO EQUIPMENT ROOM AND DEVELOPMENT ANCHORALLY THERE TO.

If you wish to make representations about the application, you should make them in writing to a Planning Officer no later than 20 days from which the notice is served. Planning, Environmental Policy and Performance, Environmental Services, 639 High Road, N17 8BD

Signed	<i>[Signature]</i> NATIONAL GRID WIRELESS SIEMENS V20 TRADING LTD
On behalf of	AND LONDON BUSES.

Date	4 SEPTEMBER 2006
------	------------------

We advise you to fill out the Sustainability Checklist from the Supplementary Planning Guide 9 to ensure your development is environmentally friendly. Please also complete the Equalities form, which allows us to monitor the service we provide.

If you require any help in filling out this form contact Development Control 020 8489 5508

When complete:

- Return 6 copies of this form
- 6 copies of all drawings and plans
- the appropriate Section 66 Certificate duly completed

To: Planning, Environmental
Policy and Performance
639 High Road
Tottenham, London N17 8BD

HARINGEY SUSTAINABILITY CHECKLIST

To accompany all applications for planning permission, listed building consent and conservation area consent

N.B. THIS FORM IS IN TWO PARTS

PART A: Question Nos. 1 - 20 - to be answered for ALL APPLICATIONS (including major ones)

PART B: Question Nos. 21 - 27 ADDITIONAL questions for MAJOR APPLICATIONS ONLY

A major application is one which is for 10 or more dwellings or where the proposed floorspace exceeds 1000 sq. m. or if the site is 1 hectare or larger

PART A: ANSWER THESE QUESTIONS FOR ALL PLANNING AND LISTED BUILDING APPLICATIONS

Sustainability Issue		UDP Policy/SPG	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use
			State how you have taken this into account or if not, or not applicable, state why not		
SC1	Air Quality Does the scheme provide for or encourage non high emission road vehicles e.g. bicycles, electric cars etc? If new housing is proposed will energy efficient condensing boilers be installed?	UD1 - 2, ENV6, M3 - 4 & M7; SPG7c, SPG8c, & SPG8i; PPG23	<input type="checkbox"/>	NOT APPLICABLE	
Environmental	Pollution				
SC2	Noise/Fumes/Light/Glare & Land Contamination Is disturbance from noise, fumes, chemicals, solvents, or other pollutants avoided? Can external artificial lighting cause problems? Can materials cause glare? Is the land potentially contaminated and if so has a site investigation been carried out?	UD2, ENV5, ENV7, EMP6, TCR1 & TCR5; SPG6c, SPG8b, SPG8c, SPG8e & SPG8f; PPG23 & 24	<input type="checkbox"/>	NO CONTAMINATION GENERATED	
Environmental	Resources/Pollution				
SC3	Waste Storage & Recycling Facilities Is provision made for external and internal storage for waste separation/collection and recycling? If the scheme is large, has a waste management plan been provided?	UD6 & ENV8; SPG8a	<input type="checkbox"/>	NO WASTE GENERATED BY THE DEVELOPMENT	
Environmental	Resources/Pollution				
SC4	Solar Design & Renewable Energy Is the siting, layout and design of the scheme maximising the potential for (on site and adjoining) daylighting, passive solar gain and natural ventilation? Are there any photovoltaic (PV) or solar panels?	ENV6; SPG8c; PPG22 & Annex	<input type="checkbox"/>	NOT APPROPRIATE	
Environmental	Resources				
SC5	Efficient Use of Land and Buildings Are existing buildings to be reused or if redeveloped will the buildings be more sustainable than those existing? Will there be a sharing or mix of uses on the site?	UD5, EMP5, EMP7 & CW1; PPG3	<input checked="" type="checkbox"/>	EXISTING MAST AND RADIO EQUIPMENT ROOM TO BE REUSED	
Environmental	Resources				

Sustainability Issue	UDP Policy/ PPG etc	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use Officer's comment
		State how you have taken this into account or if not, or not applicable, state why not		
SC6 Environmental Resources Sustainable Materials Is provision made for reusing reclaimed materials or those which have been recycled, and or/easily replaceable without harm to the environment?	ENV6; SPG8b	<input type="checkbox"/>	NOT APPROPRIATE	
SC7 Environmental Resources Sustainable Drainage & Water Conservation What measures for water conservation are being made? Is provision made for sustainable drainage systems, grey water recycling or rainwater harvesting? If new development is proposed, has a drainage impact assessment been provided?	ENV1-2; SPG8b, SPG9 Appendix 1: PPG23 & PPG25	<input type="checkbox"/>	NOT APPROPRIATE	
SC8 Environmental Resources Trees/Landscape What provision is made for existing/new trees and has a landscape scheme (Including survey of existing trees) been submitted?	UD3, OS6 & OS16; SPG8d	<input type="checkbox"/>	NONE - NOT APPLICABLE	
SC9 Environmental Heritage/Resources Biodiversity & Ecological Heritage Is provision made for natural wildlife, which includes plants/habitat, retention and creation?	UD3, OS5, OS10; SPG8d & SPG8g; PPG9	<input type="checkbox"/>	NO - NOT APPLICABLE	
SC10 Environmental Heritage Listed Buildings & Locally Listed ones Does the scheme affect the character appearance of any historic building or structure on the site or adjoining the site or the setting of a listed building? Is a locally listed building affected?	CSV1 - 3, CSV5; SPG2; & PPG 15	<input checked="" type="checkbox"/>	YES - IMPACT MINIMISED BY USE OF EXISTING MAST, MINOR NATURE OF DEVELOPMENT AND CAREFUL SITING	
SC11 Environmental Heritage Conservation Area & Other Built Heritage Is there an impact on the character or appearance of a conservation area or an adjoining one? Is a site of archaeological importance or industrial heritage affected?	CSV1 - 5, SPG2; PPG15 & PPG 16	<input checked="" type="checkbox"/>	AS ABOVE - CHARACTER AND APPEARANCE OF CONSERVATION AREA PRESERVED.	

Sustainability Issue	UDP Policy/ PPG etc	<input checked="" type="checkbox"/>	Tick box if you have taken this into account	Office Use Officer's comment
		State how you have taken this into account or if not, or not applicable, state why not		
SC12 Environmental/Social Other Quality of Life Urban Design Quality, Views & Public Art Does the scheme have a positive visual impact on the immediate local/wider area and views? Is this supported in an accompanying urban design statement? Is there to be a Percent for Arts contribution ?	UD1, UD3 - 4; SPG1a - 1c, PPG1, PPG8 & PG22	<input type="checkbox"/>	NOT APPLICABLE	
SC13 Social Other Quality of Life Designing out Crime and Designing for Privacy Does the design of the development unduly affect the safety of users? Is privacy safeguarded in a way which does not compromise safety?	AC3 - 4, UD2 - 3; SPG3b & SPG5	<input checked="" type="checkbox"/>	DEVELOPMENT WILL ENHANCE SAFETY AND CONVENIENCE OF BUS USERS	
SC14 Social/Economic Other Quality of Life Accessed By All Will pedestrians be able to move safely around the site? Is access to all parts of the scheme possible by those who are frail, are in a wheelchair, pushing a pram or otherwise mobility impaired?	UD2 & M3; SPG4 & SPG7b	<input checked="" type="checkbox"/>	NO IMPACT ON MOBILITY OF VISITORS TO SITE	
SC15 Environmental/Social Other Quality of Life Open Space Is there to be a loss or gain in public formal/ informal open space or openness of Green Belt or Metropolitan Open Land?	AC1, AC3 - 4, OS1 - 4, OS7 - OS9, OS14; SPG10 & SPG13	<input checked="" type="checkbox"/>	NO LOSS OF OPEN SPACE	
SC16 Social Other Quality of Life Affordable Housing If this is a housing scheme, will there be any "affordable" housing contribution?	HSG4 & EMP7; SPG10 & SPG11; PPG3	<input type="checkbox"/>	NOT APPLICABLE	
SC17 Social/Economic Other Quality of Life Education/Health Facilities Will there be a potential affect on the demand or provision for school places, health services such as GPs?	UD10, CW2; SPG10, SPG12 & SPG17; PPG1 & PPG12; Circular 1/97	<input checked="" type="checkbox"/>	NO	

Sustainability Issue	UDP Policy/ PPG etc	<input checked="" type="checkbox"/> Tick box if you have taken this into account State how you have taken this into account or if not, or not applicable, state why not		Office Use
				Officer's comment
SC18 Leisure & Cultural Facilities Is a leisure (e.g. a cinema an allotment etc) or cultural facility lost or gained? Social/Economic Other Quality of Life	OS8, OS11 - 12, CCT1 - CCT5; SPG10 & SPG17; PPG17	<input checked="" type="checkbox"/>	NO	
SC19 Local Shops/Services Will there still be an appropriate range of local shops and services to meet local needs? Social/Economic Other Quality of Life	TCR3 & 4; PPG 6	<input type="checkbox"/>	NOT APPLICABLE	
SC20 Jobs & Training Will local access to temporary and/or permanent jobs be lost or provided? Will there be opportunities for training local underqualified labour? Social/Economic Other Quality of Life	AC1 -2, UD10, EMP 1 - 3 & EMP 5; SPG10; PPG 4	<input checked="" type="checkbox"/>	NO IMPACT ON JOBS OF TRAINING	

PART B: ANSWER THE FOLLOWING ADDITIONAL QUESTIONS FOR MAJOR SCHEMES ONLY

(Major schemes, for this purpose, are for 10 or more dwellings or where the proposed floorspace exceeds 1000 sq. m. or if the site is 1 hectare or larger).

SC21 Other Renewable Energy Has an energy assessment been provided? In addition to those matters mentioned under item 4 above, will there be any other forms of renewable energy (CHP, windmills etc)? Environmental Resources	UD1 & ENV6; PPG22 & Annex	<input checked="" type="checkbox"/>	NO	
SC22 Demands for Public Transport Is the nature of the scheme such that it could generate increased demand for public transport facilities? Environmental/Economic Resources/Pollution	UD10; SPG7d, SPG10 & SPG14	<input checked="" type="checkbox"/>	NO	
SC23 Major Trip Generating or more than 1000 sq. m Is a traffic impact assessment required and if so, provided? Is a travel plan required? Is an air quality statement (air quality impact assessment) required and if so, provided? Environmental Pollution/Resources	UD1; SPG7d & SPG8i; PPG13	<input checked="" type="checkbox"/>	NO TRIPS WILL BE GENERATED BY DEVELOPMENT	

Sustainability Issue		UDP Policy/ PPG etc	<input checked="" type="checkbox"/> Tick box if you have taken this into account	Office Use
		State how you have taken this into account or if not, or not applicable, state why not		Officer's comment
SC24	Environmental Impact Assessment (EIA) If the proposal is for a development for which an EIA is required has a decision on scoping been submitted?	UD1; SPG8h; EIA Regs 1999; Circ. 02/99; EC Directive	<input checked="" type="checkbox"/> EIA NOT REQUIRED	
SC25	Out of Town Centre Large Retail & Leisure If the proposal is for a scheme of more than 2500 sq.m and is outside a town centre, has a retail or leisure impact assessment been provided?	UD1 & TCR2; SPG7d & SPG8i; PPG 6	<input checked="" type="checkbox"/> NOT APPLICABLE	
SC26	Tall/Large buildings Is the site appropriate for a tall building? Have verified views been submitted showing the impact on local views and, if appropriate, views of St Paul's? Are adjoining solar rights affected? Does the ground floor contribute to the public realm?	AC1 & AC2; UD1, UD3, UD4, UD10 & UD11; SPG1a & 1c, SPG3a & 3b, SPG7c & 7d, SPG8a - 8i, SPG10 - 14	<input type="checkbox"/> NOT APPLICABLE	
SC27	Crèches/Nurseries & Other Community Benefits If the scheme is commercial and over 1000 sq.m, will there be other community benefits such as an associated crèche or nursery facility provided for the workforce on or near site?	UD10 & CW2; SPG10 & SPG17	<input type="checkbox"/> NOT APPLICABLE	

THANK YOU FOR COMPLETING THIS FORM
PLEASE RETURN WITH YOUR PLANNING OR LISTED BUILDING APPLICATION FORM

YOUR COMMENTS HERE ON THIS CHECKLIST WOULD BE APPRECIATED!

1. Did you find the checklist easy to use and understand?
YES/NO (please delete as appropriate)

If NO, why not?

2. Any other comments on the checklist?

Town & Country Planning (General Development Procedure) Order 1995, Article 6

NOTICE UNDER ARTICLE 6 OF APPLICATION FOR PLANNING PERMISSION

Proposed development at Alexandra Palace, Alexandra Park, Wood Green, London, N22 7BB.

We give notice that Siemens VDO Trading Ltd and London Buses

is applying to London Borough of Haringey Council

for planning permission to install two colinear antennas on existing mast, equipment cabins in existing internal radio equipment room and development ancillary thereto.

Any owner of the land or tenant who wishes to make representations about this application should write to the Council at Planning, Environmental Policy and Performance, Environmental Services, 639 High Road, N17 8BD by 21 days from the date of this notice.

Signed

National Grid Wireless
National Grid Wireless

On behalf of

Siemens VDO Trading Ltd and London Buses

Date

4 September 2006

Statement of owner's rights

The grant of planning permission does not affect owners' rights to retain or dispose of their property, unless there is some provision to the contrary in an agreement or in a lease.

Statement of agricultural tenants' rights

The grant of planning permission for non-agricultural development may affect agricultural tenants' security of tenure.

NOTES

- 1) DO NOT SCALE DIMENSIONS
- 2) ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

Rev	Revision	Date	Drn/APP
1	Revised with new drawing	25.5.00	PMB/LMC
2	W. McQueen 26/1/00		
1	Approved Issue	14.8.98	SAW/JC
1	Gibbins 1/98/98		

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Crown Castle International
 PO Box 98
 Merwick
 CV34 8TN
 TEL: 01628 411212 FAX: 01628 483812

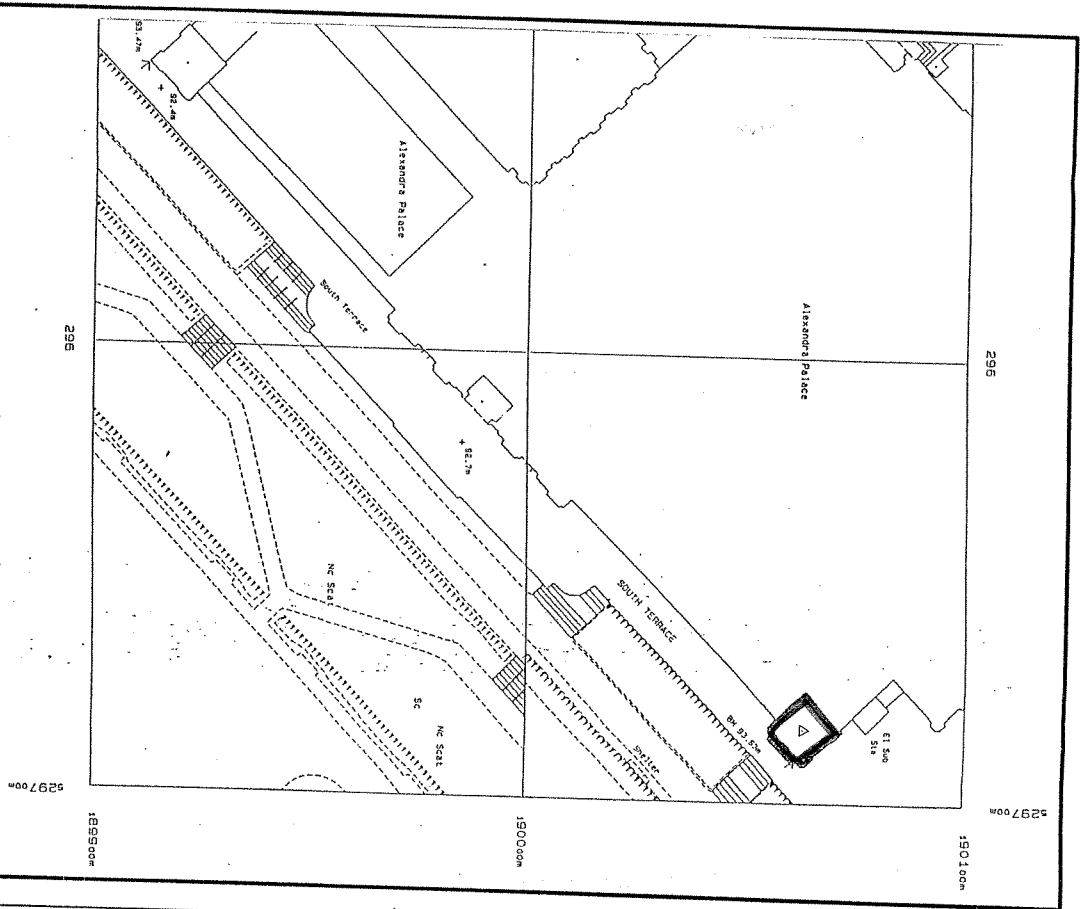
ALEXANDRA PALACE

AREA & SITE LOCATION MAPS

NGR: TO 2970 9010

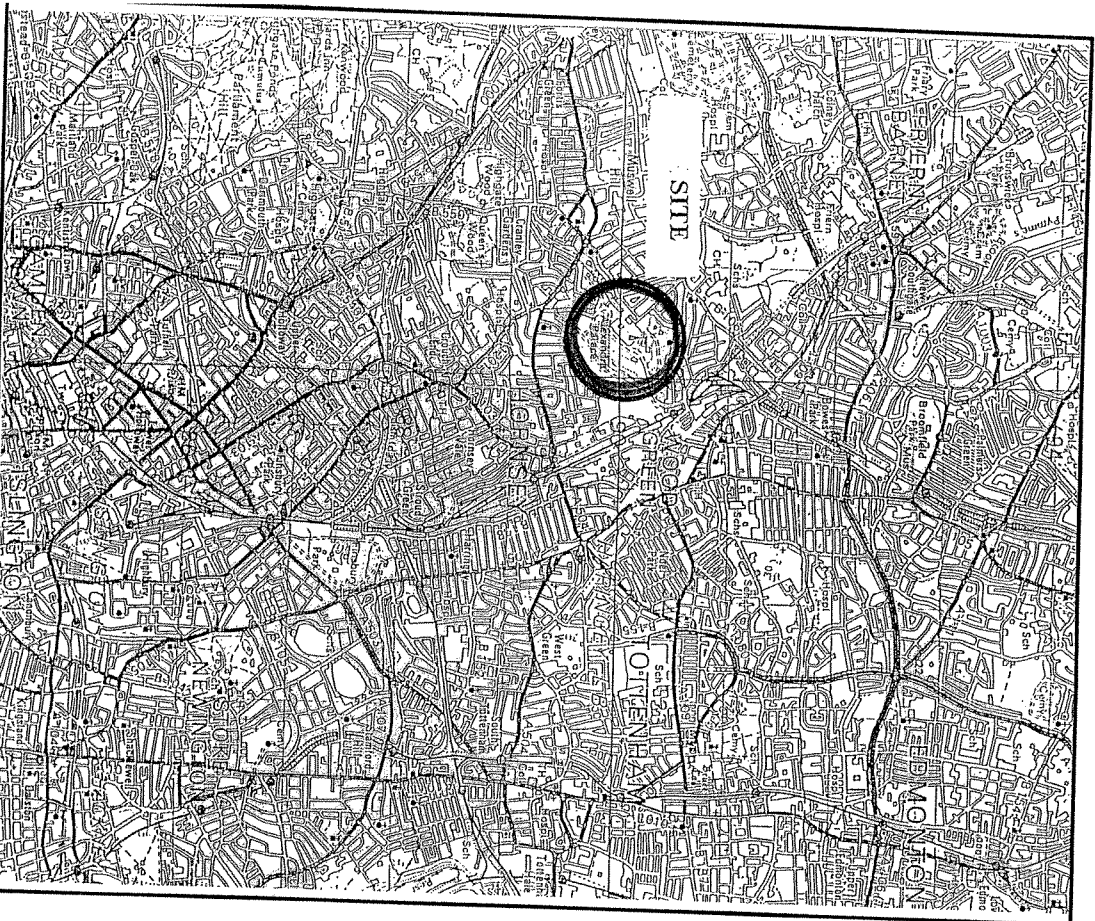
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 Dwn: RWB App: MKMcC

Drng No. 15590.2.05/2



SITE MAP

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AREA MAP

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NOTES
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2) ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE
3) ALL LEVELS ARE IN METRES AND RELATED TO A LOCAL DATUM

Contractor: chalcroft
 Consultant: chalcroft
 23 Signet court
 Swan's Road
 Cambridge
 CB5 8JA
 Engineer: Daniel Sharp
 01223 448640 dsharp@chalcroft.co.uk
 Drawing manager: Ben Holmes
 01223 448643 benholmes@chalcroft.co.uk

Project No.	Sheet No.	Project No.	Date	Rev	App
03	70321	11.07.06	DK		IPS
03	70321	01.06.06	EH		IPS
01	N/A	22.12.03	WRT		AW
01	008 PS BULLET				

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National Grid Wireless
 Wireless House
 Warwick Technology Park
 Heathcote Lane
 Warwick CV34 6DD
 Tel: 01926 418600
 Fax: 01926 418600

SIEMENS VDO TRADING
 PROPOSED
 INSTALLATION
 SOUTH EAST ELEVATION

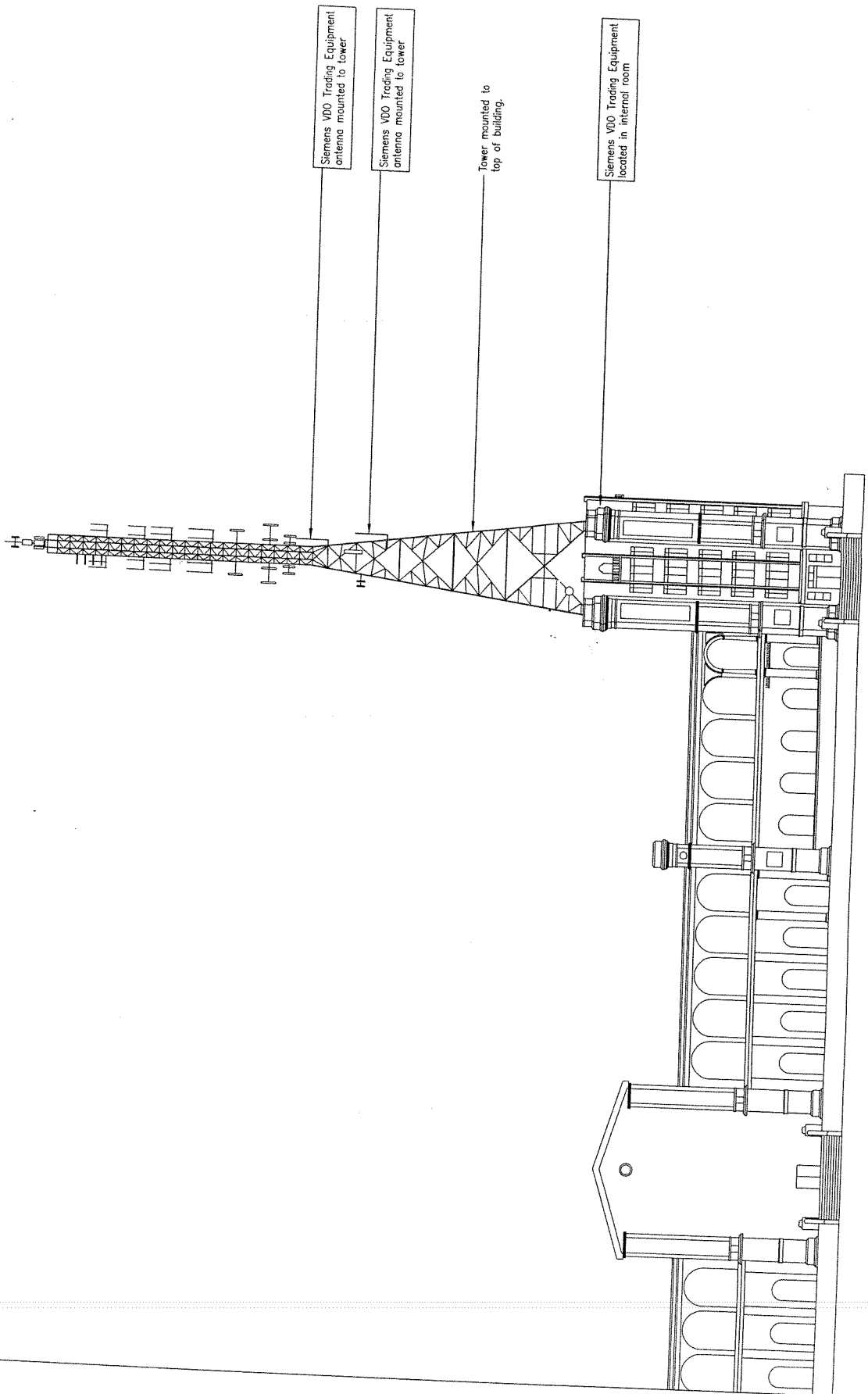
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Site no: 140056
 Site name: ALEXANDRA PALACE
 NGW SITE
 ALEXANDRA PALACE
 HARINGEY
 GREATER LONDON ET, N22 7BB

Eastings and Northings
 529700 190100

NGR: TO 29700 90100
 Date: 22.12.03
 Dm: WHF

IP/dir	Client/Type	No./Issue	App
P	15500	70321	01



Except as otherwise noted, faint details indicate locations reserved for other proposals which may be the subject of separate applications.
 Boxed text indicates

NOTES

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Contractor:	chalcroft
Consultant:	chalcroft 23 Signet court Swain's Road Cambridge CB9 6LA
Engineer:	Daniel Sharp 01223 448640 daniels@chalcroft.co.uk
Drawing manager:	Ben Holmes 01223 448643 ben@chalcroft.co.uk
Project No.	
Sheet No.	70321
03 Cabinet positions	11.07.06 DK (DPS)
02 New Operator	01.06.06 BH (DPS)
01 DAB AS BUILT	N/A
Date	22.12.03
Revision	
Date	
Drawn	
App	

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National Grid Wireless
Wireless House
Wanborough Park
Headcote Lane
Warwick CV34 6DD
TEL: 01926 416000
FAX: 01926 416600

SIEMENS VDO TRADING
SITE PLAN
PROPOSED

Scale: 1:100

Site no. 140056

Site name: ALEXANDRA PALACE

NGW SITE

ALEXANDRA PALACE

HARINGEY

GREATER LONDON E1, N22 7BB

Eastings and Northings

529700 190100

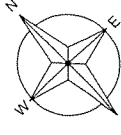
NGR: TQ 29700 90100

Date: 22.12.03 Drawn: WHT

Project: P_15590_30_150_M03_03

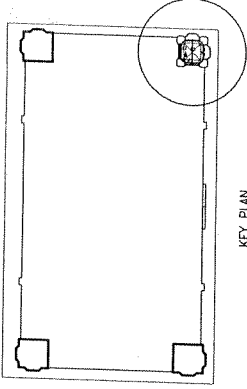
App: KW

Except as otherwise noted, faint details indicate locations reserved for other proposals which may be the subject of separate applications.
Boxed text indicates proposed work.



INDICATIVE ONLY

KEY PLAN



Tower mounted to top of building.

Siemens VDO Trading Equipment located in internal room

Existing equipment racks removed

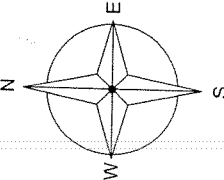
Existing vertical cable tray, 3.1m high to underside.

Existing vertical cable tray, 2.35m high to underside.

Existing feeder route.

4No. Siemens VDO Trading equipment racks.
Power taken from existing supply (4x13A Fused Spur). Feeder cables to use existing cable ladder and exit to roof through roof hatch.

INTERNAL ROOM
(1-50)



INDICATIVE ONLY

CUSTOMER: SIEMENS VDO TRADING
 CUSTOMER REFERENCE NUMBER:
 CUSTOMER NOMINAL REFERENCE:

ANTENNA DETAILS:

ITEM	DESCRIPTION	HEIGHT MEAN BASE	BRG	MECH TILT	FUNC TBC	FEEDER LDF-550	APPROX LINK LENGTH	NO. OF FEEDERS
A1	Joybeam Colinear	50.9	59.0	0	TBC	TBC	55	0
A2	Joybeam Colinear	53.9	52.0	0	TBC	TBC	55	0

A1&A2@0°

TRANSMISSION DISH DETAILS:

ITEM	SIZE	HEIGHT MEAN BASE	BRG	LINK	APPROX FEEDER LENGTH
Name					

ALL BEARINGS MEASURED EAST OF GRID NORTH
 ALL SIZES IN METRES
 DBPP = DUAL BAND PLANE POLAR

nationalgrid
Wireless

- NOTES
- DO NOT SCALE DIMENSIONS EXCEPT FOR PLANNING PURPOSES
 - ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE
 - ALL LEVELS ARE IN METRES AND RELATED TO A LOCAL DATUM

Contractor: chalcroft
 Consultant: 23 Spinet court
 Swain's Road
 Cambridge
 CB5 8LA
 Daniel Sharp
 danielsharp@chalcroft.co.uk
 Drawing manager: Ben Holmes
 01223 448640
 01223 448643
 benholmes@chalcroft.co.uk

Project No.	Project No.	Issue	Revision	Date	Dr/App
03	70321	Contract	11.07.06	DK	DPF
02	70321	New Operator	01.06.06	BH	DPF
01	N/A	DB AS BUILT	22.12.03	WHF	KW

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National Grid Wireless
 Wireless House
 Technology Park
 Hedcliffe Lane
 Hedcliffe
 Warwick CV34 6DD
 TEL: 01926 416000
 FAX: 01926 416800

SIEMENS VDO TRADING
 PROPOSED
 INSTALLATION
 HEADFRAME DETAILS

Scale: 1:20
 Site no. 140056
 site name: ALEXANDRA PALACE
 NGW SITE
 ALEXANDRA PALACE
 HARINGEY
 GREATER LONDON E1, N22 7BB

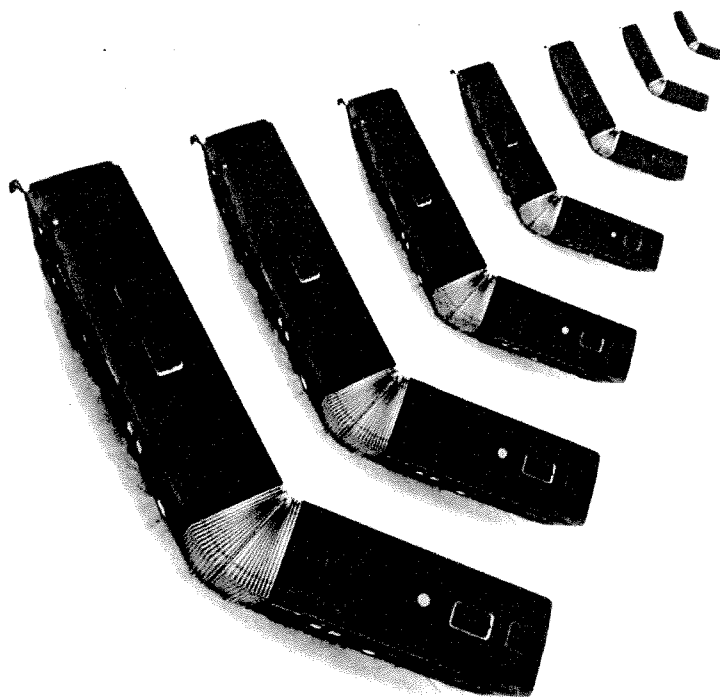
Eastings and Northings
 529700 190100
 NGR: TQ 29700 90100

Date: 22.12.03
 Drn: WHF
 Tf/dr: silenttype
 No. Issue
 P: 15590_30_160_M03_03

App: KW
 Proposed work

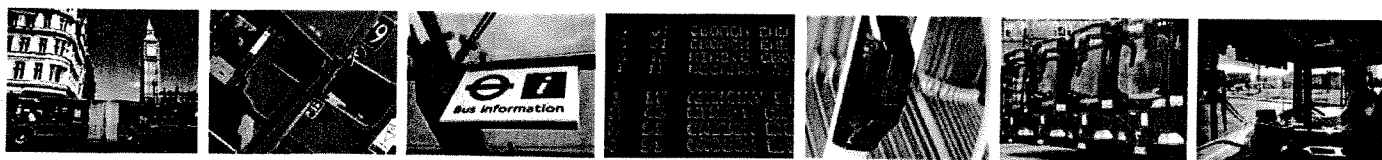
Except as otherwise noted, permit details indicate locations reserved for other proposals which may be the subject of separate applications.
 Boxed text indicates proposed work

London Buses



iBus

Informing you every stop of the way



MAYOR OF LONDON

Transport for London



London Buses informing you every stop of the way

The most important priority for London Buses is to provide the best possible bus service for its 6.3 million daily bus passengers. By introducing a 117m state-of-the-art Automatic Vehicle Location (AVL) technology system and comprehensive telecommunications across London, millions of bus passengers are soon to benefit from a more reliable, consistent bus service and will have access to real time passenger information (RTPI) at bus stops, on board buses and from SMS text messaging.

With an 8000-strong and increasing bus fleet, London Buses existing radio communications systems can no longer cope. iBus - one of the largest projects of its kind in the world - will revolutionise how services are delivered and monitored.

A wealth of journey time data will be available to analyse and improve on, and three of the same number buses arriving at once at a bus stop will be a thing of the past, as every bus will be tracked and monitored ensuring an efficient service on all routes.

Try the new bus travelling experience

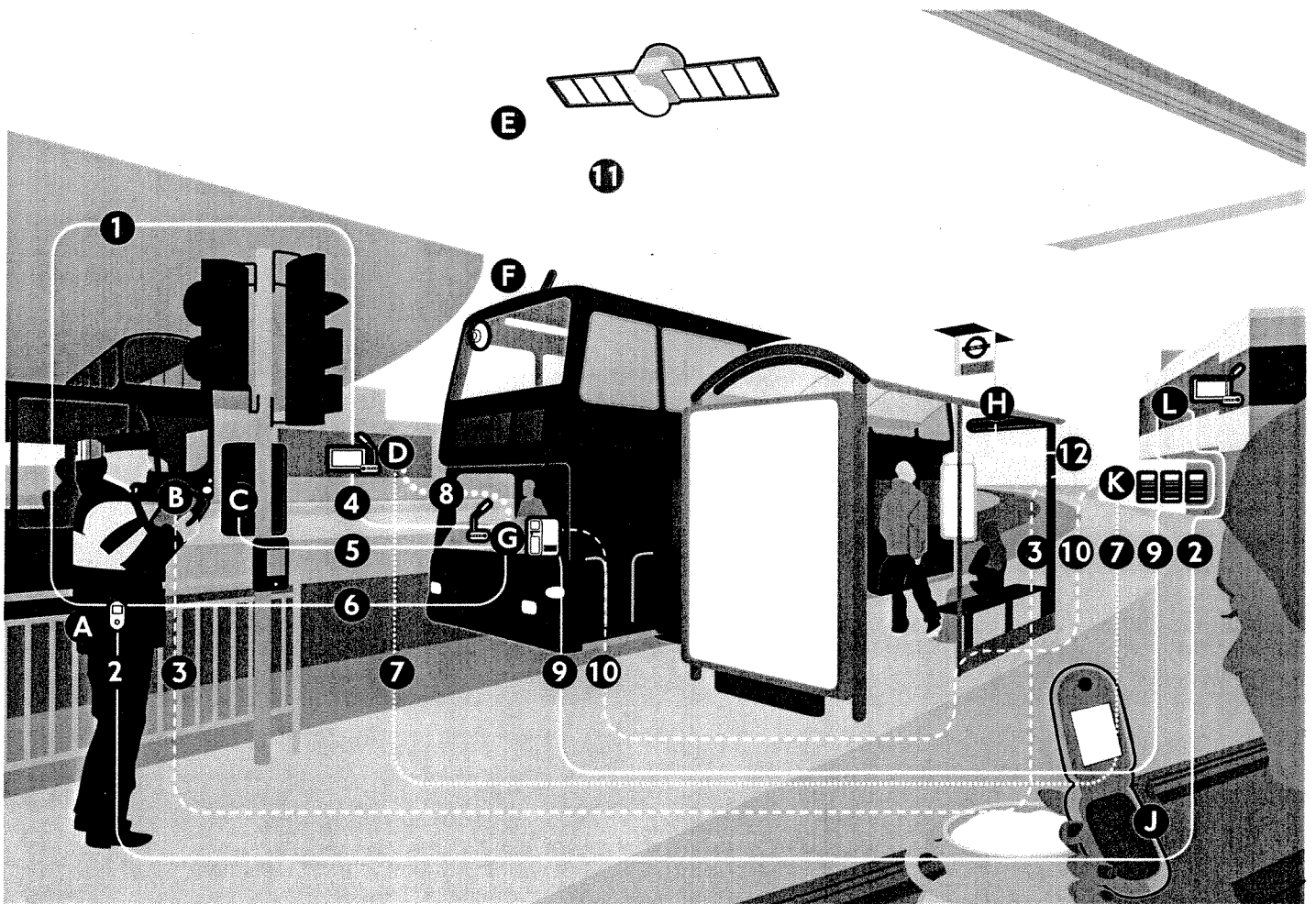
Imagine having real time bus service information at your fingertips. A typical bus journey could be like this:

You receive an up to the minute SMS text message on your mobile as you walk out of your house. As you arrive at the bus stop you can confirm on the Countdown display that your bus will arrive in an accurately predicted time. After boarding the bus you feel reassured as an on-board sign and voice announcement tells you your next stop.

The cogs that make up one of the largest and most comprehensive urban transport systems in the world

As part of Transport for London, London Buses manages bus services in London. It plans routes, specifies service levels and monitors service quality. It is also responsible for bus stations, bus stops and other support services. The bus services are operated by around 15 private companies, which work under contract to London Buses. Project iBus will be funded by TfL's five year 10 billion Investment Programme.

London's bus network is one of the largest and most comprehensive urban transport systems in the world. Every weekday, 6.3 million journeys are made on London's buses. The number of people using buses in London is at its highest level since 1968. The network consists of 17,500 bus stops and 700 routes serviced by 8,000 buses. Each year, they cover around 450 million kilometres in total mileage.



Key

A On street controller hand portable radio

B On street controller hand held computer

C Traffic light priority control

D Bus garage

E Satellite

F Bus Global Positioning System (GPS) receiver

G London Bus with:
On board computer, voice and data radio, nextstop sign
and audio announcement, Close Circuit TV (CCTV), bus
priority, camera/traffic enforcement

H Bus stop Countdown information

J Mobile phone passenger information

K Central System

L CentreComm

1 2 6 MPT1327 (standard for analogue trunked)

3 10 General Packet Radio Service (GPRS)

4 MPT1327 (standard for analogue trunked radio system)

5 Two-way wireless radio

7 Virtual Private Network (VPN)

8 Wireless Local Area Network (WLAN):
Close Circuit TV (CCTV) and traffic enforcement camera
download. Data provisioning up and download

9 MPT1327 (standard for analogue trunked radio system)
Code Red

11 Global Positioning System (GPS)

12 General Packet Radio Service (GPRS)/Integrated Services
Digital Network (ISDN)

Even on an unfamiliar route, you feel confident that you know exactly which bus stop to alight at as you are informed every stop of the way.

Empowering passengers to make better-informed decisions on journeys is what it is all about. Key benefits of the new systems for passengers include:

- more reliable services
- precise real-time information on board buses with the new on board next stop visual displays and audio announcements. Access to valuable information, such as next stops, will be of particular benefit to passengers with disabilities, infrequent travellers or passengers facing language barriers
- improved Countdown¹ predictions at bus stops
- better capability for response to emergencies by authorities as the location of all buses can be monitored at all times
- future applications support using new technology to communicate real-time passenger information.

So how does a 21st century bus monitoring and communications system work?

Through the use of sophisticated electronics, computing power and some clever mathematics the performance limitation of Global Positioning System (GPS) in a city environment (multi-path and canyon effects) are overcome. To achieve the required location accuracy and availability, GPS, direction, turn rate, map matching and distance travelled data is all combined by the mathematics to produce the final location result.

Each of London Buses' fleet of 8,000 buses will be installed with new radios, an on-board computer (OBC) with General Packet Radio Service (GPRS) and Wireless Area Local Network (WLAN) capability, new information display signs and voice announcement systems. Using GPRS technology the OBC will report the bus location and other relevant information to a Central Computer System at a rate of about every 30 seconds. This information is then processed and relayed to the garage on workstation AVL screens allowing operators to see exactly where buses are at any time.

The Central Computer System will interpret information it receives from a bus and use various algorithms to predict when the bus will reach the remaining bus stops along its route. Accurate predictions of arrival times are sent via Integrated Services Digital Network (ISDN) or GPRS to the Countdown signs - literally informing you (passengers) every stop of the way.

Whilst on board the moving bus, a passenger will be notified about route related information. This allows the travelling public to make more confident travel decisions. The On Bus Next Stop signs and audio announcements will be designed incorporating the findings of in-depth passenger research on best practices in information display technology. Trials will be conducted and will provide the opportunity for passengers, including those with disabilities, to give their comment about announcements and sign functionality.

1. Countdown is London Buses' real time passenger information display system predicting the arrival of buses at stops across Greater London.

If during a trip the bus driver needs to communicate with a service controller a voice call can be made, or in the event of an emergency (known as a code red) the driver can use a private network (MPT1327) hands free radio. This is particularly important in a code red situation as it enables non-interrupted communications between the bus driver and CentreComm (a central command and network control centre) and avoids congestion typical of public networks. As soon as a code red is activated at CentreComm, the exact bus location is transmitted via the radio network allowing instant visualisation of the bus position on the Graphical Information System (GIS) screens.

The new service control workstations being provided to 90 garages throughout London will provide comprehensive displays and tables of bus location and performance than the current system. This information will provide service controllers with a more robust and effective tool to help deal with the day-to-day operational issues that effect bus services in London. Controllers will be able to text information, requests and actions to the driver, and drivers, in turn, will be able to respond or send a pre-set text message back to the controller. This will ensure good two-way communication between the controller and driver.

Headway information, the time gap between consecutive buses, will be available to a bus

driver at all times on a screen so that they can make decisions such as slowing down or speeding up to help maintain a regulated service and stop undesirable bunching of buses.

The on-bus systems also trigger traffic lights at specific junctions providing priority to buses. This system helps drivers and service controllers to meet their bus schedules.

When the bus arrives back at its garage at the end of the day, the on-board computer uploads all the data associated with trips and schedules planned and completed during the day. The system also uploads CCTV data associated with traffic offences and on-bus passenger incidents. This data is uploaded via a WLAN and transmitted over a VPN network to the Central Computer System.

Combining intelligent minds

After assessing 120 expressions of interest as part of a detailed 18-month EU procurement process, London Buses selected Siemens to deliver this project as the most innovative, flexible and best value solution. The contract was signed with Siemens VDO Ltd on 27 April 2005 and will run for ten years. Siemens is the world's number one supplier of public transport solutions with more than 150 systems operating successfully world wide.

For more information please visit www.tfl.gov.uk/buses