# Alexandra Park and Palace Urgency Advisory Sub-Committee.

#### (Established by Statute in 1985)

To: <u>The Members of the Alexandra Park and Palace Urgency Advisory Committee</u> (Statutory)

(Ms J. Hutchinson, Mr D. Liebeck, Councillor A. Dobbie, Councillor S. Oatway)

#### **Dear Member**

A meeting of the <u>ALEXANDRA PARK AND PALACE URGENCY ADVISORY SUB-COMMITTEE</u>. will take place on <u>TUESDAY</u>, <u>12TH SEPTEMBER</u>, <u>2006</u> commencing at <u>18:30</u> in <u>PALM COURT SUITE ROOM</u> 5, <u>ALEXANDRA PALACE</u>, <u>ALEXANDRA PALACE</u> <u>WAY</u>, <u>WOOD GREEN</u>, <u>LONDON N22</u> to consider the business set out in the Agenda detailed below.

Yours sincerely

Clifford Hart Clerk to the Committee

#### **AGENDA**

- 1. ELECTION OF CHAIR OF THE SUB-COMMITTEE FOR THE REMAINDER OF THE MUNICIPAL YEAR 2006/07
- 2. APOLOGIES FOR ABSENCE
- 3. DECLARATIONS OF INTEREST: MEMBERS OF THE SUB-COMMITTEE ARE INVITED TO DISCLOSE ANY INTEREST(S) THEY MAY HAVE IN ANY OF THE ITEMS APPEARING ON THIS AGENDA.T
- 4. PLANNING AND LISTED BUILDING CONSENTS ALTERATIONS TO TRANSMISSION MAST (REPORT OF THE FACILITIES MANAGER ALEXANDRA PALACE) (PAGES 1 34)

Yuniea Semambo Clifford Hart

Head of Member Services Principal Support Manager (Council)

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225 High Road E-mail:clifford.hart@haringey.gov.uk

Wood Green

London N22 8HQ 7 September 2006

To:

**Nominated Members:** 

Ms. J. Hutchinson : Alexandra Residents' Association
Mr. D. Liebeck : Warner Estate Residents' Association

**Appointed Members:** 

Councillor A. Dobbie : Noel Park Ward Councillor S. Oatway : Alexandra Ward

Also to:

Members of the Advisory Committee

Appointed Members:

Councillor M. Cooke : Bounds Green Ward

Councillor M. Whyte : Hornsey Ward Councillor M. Newton : Fortis Green Ward Councillor G. Engert : Muswell Hill Ward

Mr P. Wastell Alexandra Residents' Association
Ms M. Myers : Muswell Hill and Fortis Green

Association

Ms J. Baker : Palace Gates Residents' Association
Ms P. Lacroix : Palace View Residents' Association
Ms S. Rees (deputy) : Palace View Residents' Association

Mr. D. Frith : The Rookfield Association Mr. F. Hilton (deputy) : The Rookfield Association

Mr H. Aspden : Warner Estate Residents' Association

General Manager, Alexandra Palace Chief Executive Trust's Solicitor Director of Finance



Agenda item:

# Statutory Advisory Committee Urgency Sub- Committee On 12<sup>th</sup> 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 4 <sup>th</sup> 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)
<ol> <li>Local Government (Access to Information) Act 1985</li> <li>No specific background papers, other than those appended, were used in compiling this report.</li> </ol>

#### 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 5<sup>th</sup> 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 4<sup>th</sup> September.
- 6.4 National Grid Wireless submitted the planning application documentation to the London Borough of Haringey, Planning Service on the 4<sup>th</sup> 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 4<sup>th</sup> 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

Brookmans Park Transmitting Station Great North Road Brookmans Park Hatfield Herts AL9 6NE

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 +44 (0) 7753 775791 Mobile

www.nationalgrid.com/wireless

4 September 2006 Our Reference DF/70321 Your Reference

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:

- The requisite numbers of your completed planning and listed building consent i application forms.
- The requisite numbers of an O.S. site plan scale 1:2500 and referenced ii 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

The relevant certificates of land ownership. İν



- 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 realtime 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,

Nationa Prid Wielen.

**NATIONAL GRID WIRELESS** 

# 器 HARINGEY COUNCIL 器

Town & Country Planning Act 1990	Receipt no.	Fee
Planning Application Form TP1 - Part 1	Cheque/PO/Cash	
1 Applicant Please use BLOCK CAPITALS	Amous	
Name AND LONDON BUSES.	Agent NATIONA	L GRID WIRELESS
Address C/O ASENT	BROOK .	CAN FOX
., 6001		
		RTH ROAD
Postcode		INS PARK, HATFU
Tel no.	Postcode AL9 6NA	
	Tel no. 0/707 6	24508
2 Address or location of application site Please outli	ne in RED on location plan	
ALEXANDRA PALACE, ALEXANT	LA PARK, WO	DON CUKEN
LONDON, N22 785		100 4 REED
3 Description of proposed development  INSTAULATION OF TWO COUNEAR AS		
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What is the present use of land or buildings? If vacant, give last kno	wn use and when use ceas	ed.
COMMUNICATIONS MAST ON EXISTIN	15 PACACE	
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)?	<b>N/A</b> Ha/m²	YES NO /
B) Change of use		
If yes, what is the gross area of land or building(s) affected by propose		YES NO
C) Alterations involving new floors pace	Ha/m²	YES NO
D) Construction of a new access to a highway		YES NO /
E) Alterations to an existing access to a highway		YES NO V
F) The loss or felling of any trees If yes, please show precise location on the plans.		YES NO V

FOR OFFICE USE ONLY

Date Received

Ref

	rype or app	lication				
A	L Full planning	application.				YES V NO
В		ing permission. ick those matters f	or which approva	al is reserved for futu	re consideration.	YES NO
	Siting 🗌	Access 🗌	Design 🗌	External appe	arance 🗌	Landscaping 🔲
C.	An application	for the removal o	or alteration of a	condition on previ	ous permission.	YES NO
		ate previous applic				
D.	An application	for renewal or co	ntinuation of pe	rmission.		YES NO .
		ate previous applic			7	
E.	An Application	for the retention o	of works or con	tinuation of use con	mmenced withou	t permission.
5 P	lans and dra	wings submit	tted with thi	s application		YES NO V
Pleas	se list all plans and	d drawings forming	part of this appl	ication.		
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		20,000				
7 Cert	ificate A - Ov	vnership				
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				Tampioto conmedic	A below.	
Certific Under Art		and Country Plan	ning (General De	evelopment Procedure	e) Order 1005 L -	artific than to
1. 21 da	ays before the da h this applicatior	te of this applicat	tion nobody, ex	ept the applicant, v	was the owner of	ertiny that: fany part of the land to
2. None	e of the land to w	hich the applicati	ion relates is, or	is part of, an agric	ultural holding.	
<u> </u>		_/_				
Signed				Date		
On behalf	of					

#### 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	ALLY ANDRA PALACE CHARITABLE TRUST
Address at which	th notice served Action and Action
ricerio	LONDON NZZ TAY

Date notice served 4 SKATZUIAL ZOO 6

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

Signed	Dunca fox	
	STEMENS VOOTRADING LTD	
On beha	alf of And Condon Ruser	
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	Date 4 SEPTEMBER 2006

#### ecklist

70 St. 10 C	
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 NO
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 NO
Have you provided enough information, including good quality photographs, of the site so that your proposals can be fully understood?	YES NO
Have you signed, dated and fully completed 4 copies of the application form for each separate application?	YES NO
Have you given full information on who owns the land involved? Have the correct notices been served he owners (if there are other owner's apart from the applicant)?	YES NO
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.	YES NO
Have you filled out the Sustainability Checklist from the Supplementary Planning Guide 9 and the	YES NO

Please note that if you cannot tick all the questions above your application is probably incomplete and cannot be dealt with if

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

Equalities form?

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

NO

# 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 QUESTION	NS FOR ALL PLANNING AND LISTED BUILDIN	NG APPLICATIONS
	Sustainability Issue	UDP Policy/SPG	Tick box if you have taken this into account  State how you have taken this into account or not, or not applicable, state why not	Office Use  Case No. HGY/ / Officer's comment
Environmental	Air Quality  Does the scheme provide for c encourage non high emission road vehicles e.g. bicycles, electric cars etc? If new housin is proposed will energy efficient condensing boilers be installed	ENV6, M3 - 4 & M7; SPG7c, SPG8c, & SPG8i; PPG23		
SC4	NoiseFumes/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?  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?  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?  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?	:NV6; SPG8c; PPG22 & Annex	NO CONTAMINATION S'ENCENTED  NO WASTE  FLUER ATED BY THE DEVELOPMENT  NOT APPROPRIATE  DEVISITANS MAST  DEVIPMENT ROOM  KE USED	
	<u> </u>			

			Tick box if you have taken this	into Office Use
	Sustainability Issue	UDP Policy/ PPG etc	State how you have taken this into account, or not applicable, state why not	
SC6	Sustainable Materials			
Environmental Resources	Is provision made for reusing reclaimed materials or those which have been recycled, and or/easily replaceable without harm to the environment?	ENV6; SPG8b	NOT APPROPRIE	972
SC7	Sustainable Drainage & Water			
Environmental Resources	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	NOT APPROPRI	ATE
SC8	Trees/Landscape			
Ę 0	What provision is made for existing/new trees and has a landscape scheme (Including survey of existing trees) been submitted?	UD3, OS6 & OS16; SPG8d	APPLICABLE	
С9 г	Biodiversity			4. 1 1 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1
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Heritage/Resou	iddifo white to a	UD3, OS5, S10; SPG8d & SPG8g; PPG9	APPLICABLE	
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		Sustainability Issue	UDP Pol PPG e	tc Sta	te how you have taken this into a or not applicable, state why not	
Environmental/oppin	Other Quality of Life	Urban Design Quality, Views & Public Art Does the scheme have a positive visual impact on the immediate local/wider area a views? Is this supported in a accompanying urban design statement? Is there to be a Percent for Arts contribution	ind PPG1, PPG in PG22	1c,	NOT APPLIC	AACK
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, UE 3; SPG3b SPG5	Ce	DEVELOPMENT ILL EASHANCE STATY AND NUENIENCE OF IS USERS	<b>-</b>
Social/Economic 5	Other Quality of Life	Accessed By All Will pedestrians be able to mosafety around the site? Is access to all parts of the schempossible by those who are frail are in a wheelchair, pushing a pram or otherwise mobility impaired?	SPG4 & SPG7b	M	ROLPACT OF	
Environmental/Social C1	ility 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?	OS9, OS14;	000	NO COSS OF	
Social Social	of Life	offordable Housing  this is a housing scheme, will lere be any "affordable" ousing contribution?	HSG4 & EMP7; SPG10 & SPG11; PPG3		NOT AMELICA	104
Econom	rality of Life.		UD10, CW2; SPG10, SPG12 & SPG17; PPG1 & PPG12; Circular 1/97	V	<b>~</b> 0	

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	Sustainability Issue	UDP Po	etc State	account  how you have taken this into acco	
			not, c	or not applicable, state why not	Officer's comment
Social/Economic C	Leisure & Cultural  Facilities Is a leisure (e.g. a cinema a allotment etc) or cultural facilists of gained?	OS8,OS 12, CC1 CCT5; SF & SPG1 PPG1	1 - G10 7;	NO	
SC19	Local Shops/Services			1.	
Social/Economic	Will there still be an appropriation of the control	PPG 6	4:	NOT APPLICA	&cE
Social/Economic CC	Jobs & Training  Will local access to temporary and/or permanent jobs be lost provided? Will there be opportunities for training local underqualified labour?	AC1 -2, UD or EMP 1 - 3 EMP 5; SPG10; PPG	1	NO IMPACT OF	~
Major scl rger).	PART B: ANSWER hemes, for this purpose, are for 10 or	THE FOLLOWI	NG ADDITION	ONAL QUESTIONS FOR MAJOR : proposed floorspace exceeds 100	SCHEMES ONLY 00 sq. m. or if the site is 1 hectare or
C21	there any other forms of renewable energy (CHP, windmills etc)?	UD1 & ENV6; PPG22 & Annex	V	~0	
Resources/Pollution	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	V	<i>\</i>	
Pollution/Resources	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	NE SE	NOTRIPS LICE NELATED EVECOPMENT	

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		Sustainability Issue	UDP Policy PPG etc	State I	accoun	x if you have taker t ve taken this into able, state why not	account or if	Office Use Officer's comment
Environmental	24	Assessment (EIA)  If the proposal is for a development for which an EIA required has a decision on scoping been submitted?	UD1; SPG8f is EIA Regs 1999;Circ. 02/99; EC Directive	1:	ER	I A NOT		
Economic/Social/ O Environmental S	Other Quality of Life	Out of Town Centre  Large Retail & Leisure If the proposal is for a scheme more than 2500 sq.m and is outside a town centre, has a retail or leisure impact assessment been provided?	of UD1 & TCR2; SPG7d & SPG8i; PPG 6	V	100	T APPCLL	ARCK	
Environmental SC 26	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		107	- APPCE	c A S C.K.	
SC27 Sconomic Sconomic	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		LOT	APPLLE	ASCL	

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

Did you find the checklist of YES/NO (please delete as	easy to use and understa		APPRECIATED!
If NO, why not?			
Any other comments on the	checklist?		

	Page 16
<b>MARINGEY</b>	COUNCII SI

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

Planning Listed Building & Conservation Areas

FOR OFFICE USE ONLY			
Ref	Date Received	1	1
Receipt no.	Fee		
Cheque/PO/Cash	1 66		
Tinguon Croasii			

Regulations 1990

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 &

1 Applicant Please use BLOCK CAPIT	[ALS Agent
SIEMENS VDO TRADING	LTD NATIONAL SAID WIRELESS
Name AND LONDON BUSES	Name F.AO. DUNCAN FOX
Address C/O ASENT	Address TRANSMITTING STATION
	SREAT NOATH ROAD
	Blooking PARK, HATTIKE
ostcode	Postcode AL9 GNE
Tel no.	Tel no. 01707 624508
2 Address or location of application pullding(s) which the applicant owns/controls edged	<b>n site</b> Please outline in RED on location plan, with any adjoining land and/or d in BLUE
ALLXANDRA PALACE,	ALEXANDRA PARE, LOOD GREEN,
LONDON NZZ 7BB	•
ocated.	and/or Conservation Area within which the building is
	Conservation Area:-
ocated.	
Cated.  List Grade:-	Conservation Area:-
Cocated.  List Grade:-  I	Conservation Area:-
Cocated.  List Grade:-  I  II*	Conservation Area:-  ALEXANDRA PALACE AND PARK
Cocated.  List Grade:-  I  II*  II	Conservation Area:-  ALEXANDRA PALACE AND PARK
List Grade:-  I  II*  II  Type of application Please tick appropri	Conservation Area:-  ALEXANDRA PALACE AND PARK  iate box  Conservation Area Consent
List Grade:-  I  II*  II  Type of application Please tick appropri	Conservation Area:-  ALEXANDEA PACACE AND PARK  iate box  Conservation Area Consent  (ie: Application for consent to demolish or part demolish an unlisted building in a Conservation Area)
List Grade:-  I  II*  Type of application Please tick appropri  Listed Building Consent  (ie: Application for works to a Listed Building)  Description of proposed development  LASTACATION OF TWO COLOR	Conservation Area:-  ALLYANDRA PALACE AND PARK  iate box  Conservation Area Consent  (ie: Application for consent to demolish or part demolish an unlisted building in a Conservation Area)  ent  JEAR ANTENNAS ON EXISTAS MAST
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Condon	BUSES AIMED A	T SECURINS MORE RELIABLE SERVICES.
prouding	PRECISE REAL TO	THE INFOLMATION AND SHEATTE SECURITY
If planning permiuse of the buildir	ssion has been sought or g or land within its curtilag	granted for the carrying out of works to the building or for any change, state the date and reference number of the application or permi
	Date	Number
Description of	the works to be car	ried out (as shown on plans & drawings listed in Question 9
MONE	molition (including demolit	tion or removal of any part of the building)
7001VE		
Describe any alte	erations	
THE ADDI	770W OF TLO SO	CENDER ANTENNAS ON THE EXITING MA
		RTINIS STEELLORK AND ANCILLARY
		ELEDER CASCRS. EQUIPMENT CASING LOCA
		CADIO ECUILMENT ROOM.
Describe any exte	ensions	
NONE		
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10 Certificates		
Please indicate which S	Section 11 Certificate is su	ibmitted with the application (see accompanying notes or const
Planning Department)	Α	
		В
	C	D
1 Declaration		
We hereby apply for listed	d building consent/ conserva	tion area consent to carry out the works described in this application
ccompanying plans and dr	rawings.	and a solution to carry out the works described in this application a
Dunca do		
Signed LATIONAL	SRID LIRELESS LTD	Date 4 SEPTLICALE 2006
On behalf of And Lon	JON BUCKS	
Continue 44 Oute	•	
Section 11 Certifi		
ii you are the sole ow	rier of all the land to which	h the application relates complete Certificate A.
If any part of the appli	cation extends beyond la	nd in your exclusive ownership, complete Certificate B and ser
monoc (in the follinger	. Out below) to each owner	f and indicate on the plans submitted who owns which made at a
site, Leasenoiders mu	ist serve notice on freehol	ders.
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 giv	re notice in the form snow	11. The newspaper notice should be published not cortion them
days before the date o	if the application. You sho	ould then complete Certificate C.
If you don't know the n	ames and addresses of a	any of the owners of the land to which the application relates, yo
and dive holice of the	re application in a local ne	WSDADER in the form chown. This notice about the multiple is
earlier trian 20 days be	fore the date of application	on. You should then complete Certificate D.
Any person who knowir	ngly or recklessly issues a	a certificate which contains any statement which is false or
misleading in a materia	Il particular is liable on cor	nviction to a fine not exceeding £100.
For the purpose of the d	certificate in this application	on "Owner" means any person having a freehold interest or a
leasehold interest with a	at least seven years unex	pired and "land" includes a building or buildings.
		and an extension of buildings.
Certificate A - Own	iership	
cation site. If you are the S	SOLE OWNER of the whole :	ease with at least seven years remaining on ANY PART of the site complete certificate A below.
		and deliminate A below.
<b>tificate A</b> r Article 7 of the Town and	d Country Planning (Conorel	Develop
		Development Procedure) Order 1995 I certify that:
	of this application nobody,	except the applicant, was the owner of any part of the land to
1 days before the date o	ates.	
application (cl		
and application rel	h the application relates is	or is part of an agricultural holding.
and application rel	h the application relates is	orন্ত part of an agricultural holding.
and application rel	h the application relates is	or is part of an agricultural holding.

#### 14 Certificate B

# Page 19

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.

ı	certify	that

1.	have the applicant has given the requisite mating to	.*
	I have/ the applicant has given the requisite notice to everyone else who, on the day 21 days before the	a data of the
	accompanying application, was the owner of any part of the land to which the applicant relates as liste	e date of the
	and to which the applicant relates as lists	ad bolow
	and applicant relates as liste	a below.

ALLYANDRA PALACE
Owners name CHARITABLE TRUST

Address at which notice served ALLYANDRA PALACE
ALEXANDRA PALACE WAY, WOOD SREEN,
LONDON, NOZ 7AY.

Date notice served & SEPTEMBER 2006

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

Signed NATIONAL SILIS WIRELESS
SIEMENS VAO 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	V
Extending		Varying or discharging cond	itions
At the location of:			
Name EXISTING	commen	ICATIONS MAST AND INT	KRUAL BOLHANCE A
		<u> </u>	D SKELL
Condon		P	ostcode <i>N22</i> 7 <i>86</i>
AKE NOTICE that application	n is being made	ری to the London Borough of Haringov by A	EMENS VOOTRADIN

TAKE NOTICE that application is being made to the London Borough of Haringey by <u>A しんしん にんしん Ruse</u> (name of applicant)

For:

Listed Building Consent

V

**Conservation Area Consent** 

Varying or discharging conditions

posed works, variations or discharge:

INSTALLATIONS OF THE COUNTAR ANTENNAS ON EXISTING MAST,
EQUIPMENT CASINS IN EXISTING INTERNAL RATIO ROCIPMENT ROOM
AND DEVELOPMENT ANCHIALY THERETO.

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 NATIONAL SKID WIRELESS
SIEMENS VOOTZADING LTD
On behalf of And Condon Buses.

Date 4 SEPTAMBER 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 TH	IESE QUESTIC	NS FOR ALL PLANNING AND LISTED BUILDIN	IG APPLICATIONS
Susta	inability Issue	UDP Policy/SPG	Tick box if you have taken this into account	Office Use
encoura  un road ver  un electric of  is propos	e scheme provide for or ge non high emission nicles e.g. bicycles, cars etc? If new housing sed will energy efficient ing boilers be installed?	UD1 - 2, ENV6, M3 - 4 & M7; SPG7c SPG8c, & SPG8i; PPG2:		
B Land C Is disturb, fumes, ch other polling of the contamination of the	artificial lighting cause ? Can materials cause the land potentially ated and if so has a digation been carried sorage & Facilities n made for external al storage for waste //collection and if the scheme is large, e management plan	UD2, ENV5, ENV7, EMP6, TCR1 &TCR5 SPG6c, SPG8b, SPG8e & SPG8f; PPG23 & 24 UD6 & ENV8; SPG8a	NO CONTAMINATION S'ENCENTED  NO WASTE SENER ATED BY THE DEVELOPMENT	
The scheme potential for adjoining) di solar gain ai ventilation? photovoltaic panels?  C5 Efficient Use and Building: Are existing I buildings be in buildings be in than those existing I buildings be in than than the buildings be in than than the buildings be	Energy , layout and design of Enmaximising the (on site and aylighting, passive nd natural Are there any (PV) or solar	PPG22 & Annex  D5, EMP5, IP7 & CW1:	MOT APPROPRIATE  EXISTING MAST  HAD RADIO  COUPMENT ROOM  O KE USED	

		<del>'</del>	Tak to the second secon	
		UDP Policy/	Tick box if you have taken this into account	Office Use
	Sustainability Issue	PPG etc	State how you have taken this into account or i not, or not applicable, state why not	Officer's comment
SC6	6 Sustainable Materials		NOT APPROPRIATE	
Environmental	Is provision made for reusing reclaimed materials or those which have been recycled, and or/easily replaceable without harm to the environment?	ENV6; SPG8b	1007 75-720121111C	
SC7	Sustainable Drainage & Water			
	Conservation What measures for water	ENV1- 2;SPG8b, SPG9	LOT APPROPRIATE	
Environmental	provision made for sustainable drainage systems, grey water recycling or rainwater harvesting? If new development is proposed, has a drainage impact assessment been provided?	Appendix1: PPG23 & PPG25		
SC8	Trees/Landscape		LONG- NOT	
Environmental	What provision is made for existing/new trees and has a landscape scheme (Including survey of existing trees) been submitted?	UD3, OS6 & OS16; SPG8d	APPLICABLE	
000				
Environmental SS 60	Biodiversity & Ecological Heritage Is provision made for natural wildlife, which includes plants/habitat, retention and creation?	UD3, OS5, OS10; SPG8d & SPG8g; PPG9	NO - NOT APPLICABLE	
C10	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?	& PPG 15 O	YES-IMPACE MINIMISED BY USE F LENTING MAST, INDE NATURE OF ELECOMET AND REFUL SITINS	
11 ***********************************	Other Built Heritage Is there an impact on the	& PPG 16	AS ASOCK- HARACTER AND PREARANCE OF PASERVATION ATTER PLSERVED.	

				1	Tick box if you have take account	n this into	Office Use
	***************************************	Sustainability Issue	UDP Polic PPG etc	State hou	y you have taken this into it applicable, state why no	account or if t	Officer's comment
Environmental/Social	12	Urban Design Quality, Views & Public Art Does the scheme have a positive visual impact on the immediate local/wider area ar views? Is this supported in ar accompanying urban design statement? Is there to be a Percent for Arts contribution?	PG22	:	NOT APPLIE	CARCE	
Social	:	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	SAFE	DEVELOPMEN LANDANCE TY AND LANGACK O USERS		
Social/Economic OS	Other Quality of Life	access to all parts of the scheme possible by those who are frail,	e UD2 & M3; SPG4 & SPG7b		WIPACT OF ORS TO SITE		
C15	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		NO COSS OF		
16	Other Quality of Life	Affordable Housing  If this is a housing scheme, will there be any "affordable" housing contribution?	HSG4 & EMP7; SPG10 & SPG11; PPG3		OT AMCCCA	SCE	
	Tall A	the demand or provision for school places, health services such as GPs?	JD10, CW2; SPG10, SPG12 & PG17; PPG1 & PPG12; ircular 1/97	VN	0		

					T		<del></del>	Tielsha	<del>.</del>			
			Sustainability Issue			Policy/` S etc	State h	account ow you have	e taken this	taken this into into account		Office Use
-			Leisure & Cultural				not, or	not applicat	ole, state wh	y not		Officer's comment
	Social/Economic SS		Facilities Is a leisure (e.g. a cinema allotment etc) or cultural fa lost or gained?	an acility	OS8,C 12, CC CCT5; \$ & SPC PPG	CT1 - SPG10 S17;	V					
s	C19		Local Shops/Services					T				
	social/Economic	jo L	Mill there still be an approp ange of local shops and ervices to meet local need	- 1	TCR3 ( PPG			<i>N</i> 67	T APK	· CC A&C	E	
SC	20											amana hala dalah sada saka saka saka sa
Social/Economic		Quality of Life to but as A	obs & Training fill local access to temporal ad/or permanent jobs be loo ovided? Will there be portunities for training loca derqualified labour?	st or E	C1 -2, UI EMP 1 - ; EMP 5 PG10; PF	38 (	TOK	NO 1. s of:	TLAIN	T 0N 11NS		
		5.97					***************************************			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
(Majo	or scho	emes, fo	PART B: ANSWE	R THE	FOLLOV dwelling	VING A	DDITION	NAL QUEST	TIONS FOR	MAJOR SCH	EMES	ONLY  if the site is 1 hectare or
SC2			er Renewable Energy	T		Ť			in in		1	
Environmental	Resources	Has been thos item there	an energy assessment n provided? In addition to e matters mentioned unde 4 above, will there be any e any other forms of wable energy (CHP, mills etc)?	r	1 & ENV PG22 & Annex	6,		<b>√</b> 0				
Environmental/Economic CO	Resources/Pollution	Trans Is the that it	nature of the scheme suc t could generate increased and for public transport	SF	); SPG7c G10 & PG14			۵				
SC23		Major	Trip Generating			7	T					
Environmental	Pollution/Resources	Is a tra require travel p quality impact	e than 1000 sq. m  Iffic impact assessment  and if so, provided? Is a  plan required? Is an air  statement (air quality  assessment) required  o, provided?	& S	SPG7d PG8i; G13	BERT	SKN DE	O TRI	irs Li ED mens	-		
			i		ļ							

***************************************						
***********		Sustainability Issue	UDP Policy/ PPG etc	State	Tick box if you have taken this into account how you have taken this into account or if or not applicable, state why not	Office Use Officer's comment
Environmental S		Assessment (EIA) If the proposal is for a development for which an EIA required has a decision on scoping been submitted?	UD1; SPG8h; EIA Regs 1999;Circ. 02/99; EC Directive		EIA NOT REQUEED	
Economic/Social/ 0/ Environmental 5	Other Quality of Life	Out of Town Centre  Large Retail & Leisure If the proposal is for a scheme more than 2500 sq.m and is outside a town centre, has a retail or leisure impact assessment been provided?	of UD1 & TCR2; SPG7d & SPG8i; PPG 6	V	NOT APPLICABLE	
Environmental S	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		NOT APPLICABLE	
×	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		LOT APPLICASIA	

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

<ol> <li>Did you find</li> </ol>	COMMENT the checklist ea ease delete as ap	sy to use and un	ON THIS CI	HECKLIST	WOULD B	E APPRE	CIATED!
If NO, why n	ot?						
. Any other co	mments on the c	hecklist?					

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 Cic hirelen.

National Grid Wireless

On behalf of

Siemens VDO Trading Ltd and London Buses

Date

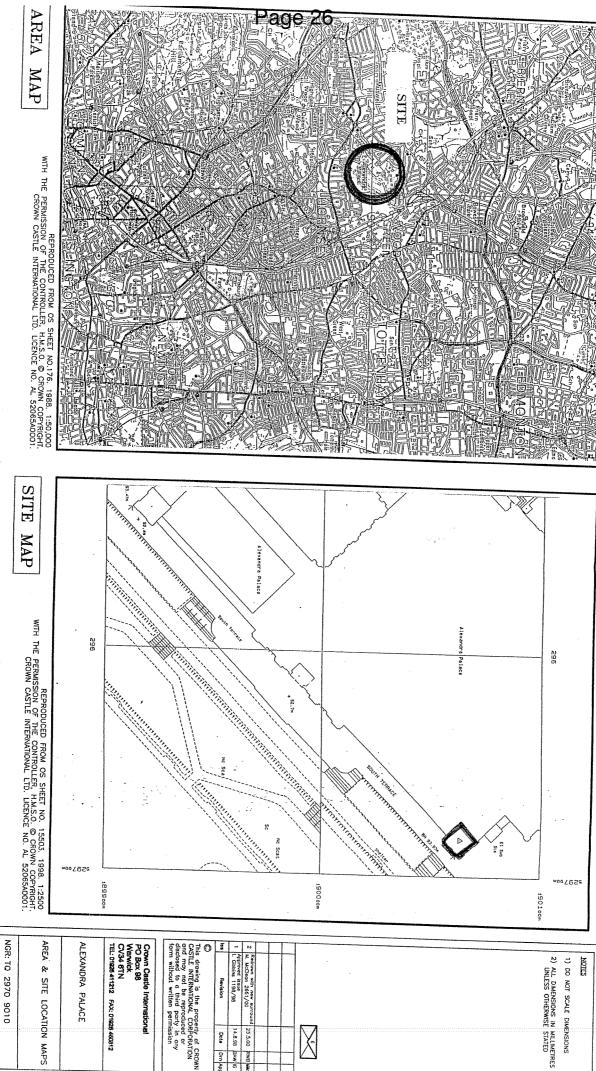
4 September 2006

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.



25.5.00 RWB MAC 14.8.98 BAW IG Date Dm App

Drg No 15590.2.05/2

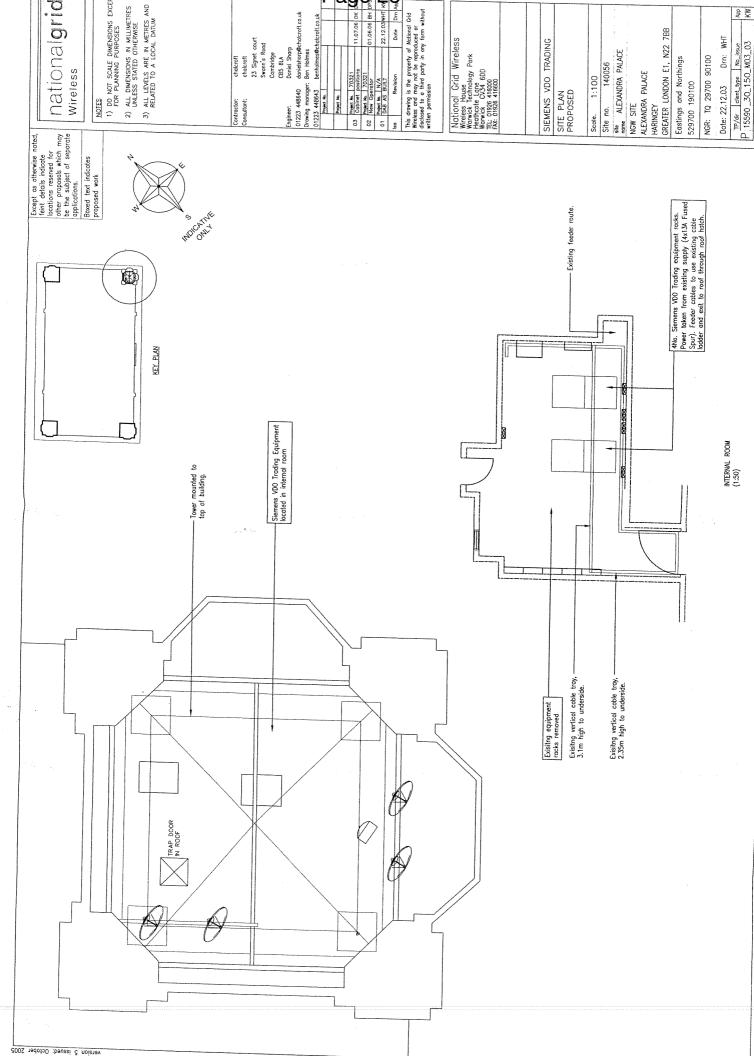
Scale: As shown

Date: 25.5.00

App: MMcC



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Warks Tehnoley Park
Heathcate Lane
Narwick CV34 6DD
Fib. 1936 416600 GREATER LONDON E1, N22 7BB PROPOSED INSTALLATION SOUTH EAST ELEVATION Date: 22.12.03 Drn: WHT SIEMENS VDO TRADING site ALEXANDRA PALACE
NGW SITE
ALEXANDRA PALACE
HARINGEY TP/dir client\_type No\_issue NGR: TQ 29700 90100 Wireless Eastings and Northings 529700 190100 Scale. 1:500 Site no. 140056 0.3 Project No. 70321
0.2 Cabinet positions
0.2 West No. Decretor
0.1 Project No. 10021
Revision Project No. Except as otherwise noted, their details indicate locations reserved for other proposals which may be the subject of separate applications. Siemens VDO Trading Equipment antenna mounted to tower Siemens VDO Trading Equipment antenna mounted to tower Siemens VDO Trading Equipment located in internal room Tower mounted to top of building. Œ 0 version 5 issued: October 2005



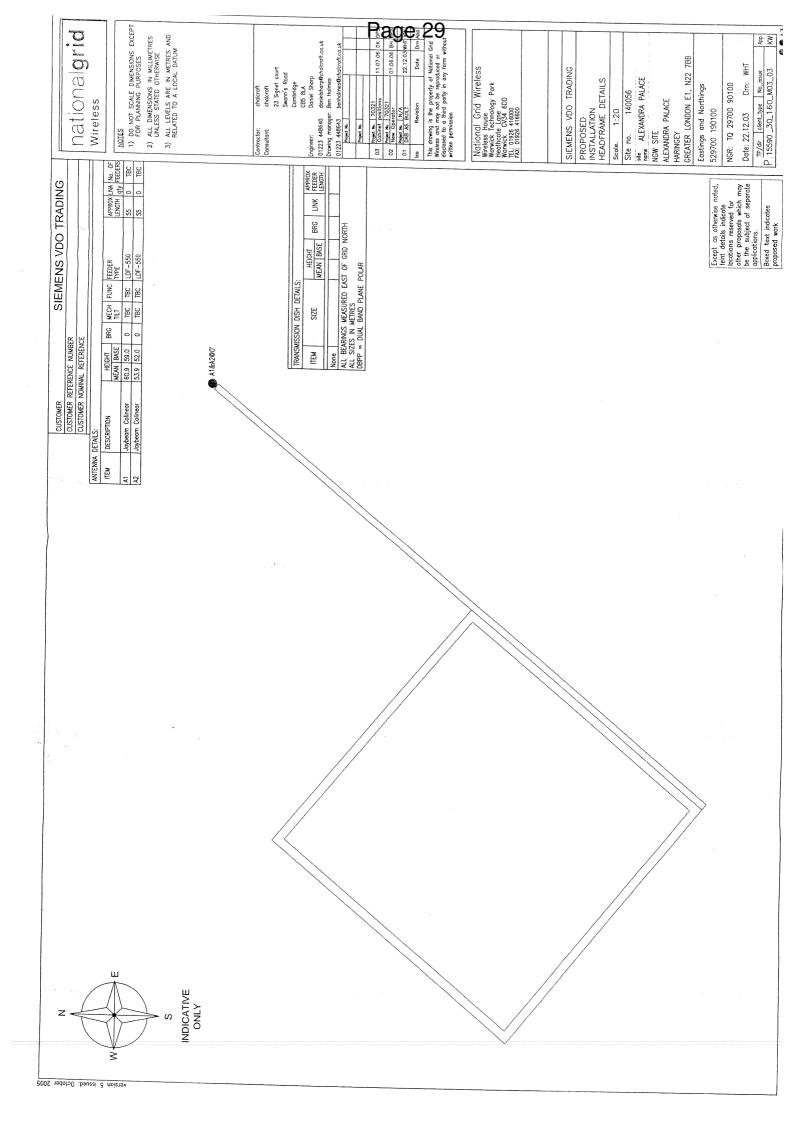
# nationalgrid

1) DO NOT SCALE DIMENSIONS EXCEPT FOR PLANNING PURPOSES

01223 448640 danielsharp@chalcraff.co.uk Drawing manager: Ben Holmes

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# iBus

Informing you every stop of the way















**MAYOR OF LONDON** 

Transport for London



#### London Buses

### 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

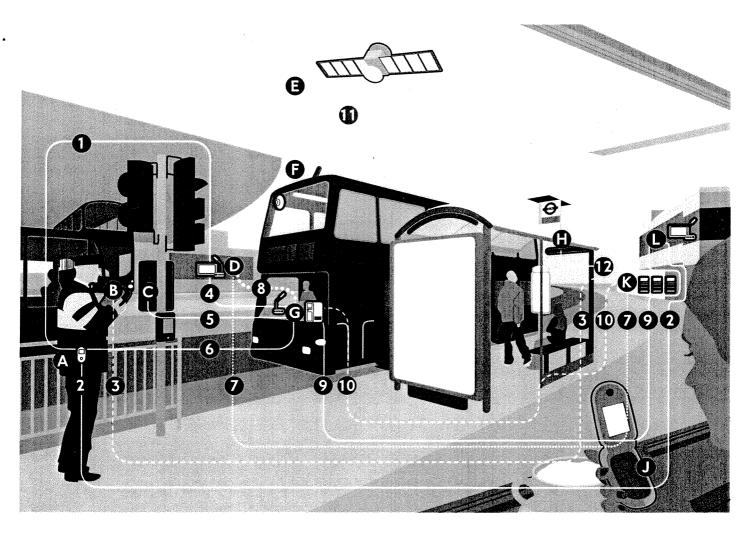
Imagine having real time bus service information at your fingertips. A typical bus journey could be like this:

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
- On street controller hand held computer
- **●** Traf c light priority control
- Bus garage
- Satellite
- Bus Global Positioning System (GPS) receiver
- On board computer, voice and data radio, nextstop sign and audio announcement, Close Circuit TV (CCTV), bus priority, camera/traf c enforcement
- Bus stop Countdown information
- Mobile phone passenger information
- CentreComm

- **10 2 6** MPT1327 (standard for analogue trunked)
  - 3 10 General Packet Radio Service (GPRS)
    - MPT1327 (standard for analogue trunked radio system)
    - 5 Two-way wireless radio
    - Virtual Private Network (VPN)
    - Wireless Local Area Network (WLAN): Close Circuit TV (CCTV) and traf c enforcement camera download. Data provisioning up and download
    - MPT1327 (standard for analogue trunked radio system)
       Code Red
    - Global Positioning System (GPS)
    - General Packet Radio Service (GPRS)/Integrated Services Digital Network (ISDN)

## London Buses

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 betterinformed 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.

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

# London Buses

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 noninterrupted 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