

**SUPPLEMENTARY INFORMATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1.** | **Site details** |  |  |  |
|  |  |  |  |
| Site Name | St. Pancras Station | Site Address | St Pancras International, Euston Road, Kings Cross, London, N1C 4QP |
| NGR |  | 29963 83164 |  |  |
| Site Ref Number | MTR753 | Site Type1 | Rooftop |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **2.** | **Pre Application Check list** |  |  |  |  |  |
| **Site selection** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Was an LPA mast register used to check for suitable sites by the |  |  |  |  | **No** |
| operator or the LPA? |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| if no explain why |  |  |  |  |  |
| This is an upgrade of the existing equipment |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Was the industry site database checked for suitable sites by the |  |  |  |  | **No** |
| operator? |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| if no explain why |  |  |  |  |  |
| This is an upgrade of the existing equipment |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Annual roll out consultation with LPA** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Date of last annual rollout information/submission |  |  | Unknown |  |  |
|  |  |  |  |  |  |  |  |
| Name of contact |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Summary of outcome/Main issues raised |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Pre-application consultation with LPA** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Date of written offer of pre-application consultation |  |  |  |  |  |  |
|  |  |  |  |  |
| Was there pre-application contact |  NO |  |  |  |
|  |  |  |  |  |  |  |
| Date of pre-application contact |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Name of contact  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Summary of outcome/Main issues raised |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1 Macro or micro

**Ten Commitments Consultation**

|  |  |  |  |
| --- | --- | --- | --- |
| Rating of Site under Traffic Light Model | ~~Green~~ | ~~Amber~~ | **Red** |
|  |  |  |  |
| Outline Consultation carried out |  |  |  |

In accordance with the Code of Best Practice the site has been given a rating of Red due to the site being contained on a Grade 1 Listed Building.

Summary of outcome/Main issues raised

**School/College**

Location of site in relation to school/college (include name of school/college)

It was considered that there was no school or college with a direct functional or visual relationship with the proposed.

Outline of consultation carried out with school/college (include evidence of consultation) N/A

Summary of outcome/Main issues raised

N/A

**Civil Aviation Authority/Secretary of State for the Defence/Aerodrome Operator consultation**

**(Only required for an application for prior approval)**

|  |  |  |
| --- | --- | --- |
| Will the structure be within 3km of an | ~~Yes~~ | **No** |
| aerodrome or airfield? |  |  |
|  |  |  |
| Has the Civil Aviation Authority/Secretary of | ~~Yes~~ | **No** |
| State for the Defence/Aerodrome Operator |  |  |
| been notified |  |  |
|  |  |  |
| Details of response |  |  |
| N/A |  |  |
|  |  |  |

**Developer’s Notice**

**(Only required for an application for prior approval)**

|  |  |  |
| --- | --- | --- |
| Copy of Developer’s Notice enclosed |  YES |  |
|  |  |  |
| Date served |  13/06/17 |  |
|  |  |  |

1. **Proposed Development**

The proposed site

The proposed site is situated at the rooftop of St. Pancras Station. The site currently serves the emergency services with Telecommunications equipment for 999 calls. The application is to add 1 x 0.2m transmission dish to a new pole mount on the side of an existing plant room, in order to provide an improved service to the emergency services in the event of transmission failure. This transmission dish is part of a nationwide program to replace outdated copper ground based technology with transmission dishes by April 2016.Careful consideration has been given to the siting and installation position of this dish on the existing flagpole antenna and as such it is viewed that the addition of this small dish is considered to have a minimal visual impact. Additionally the dish can be if so required colour painted to match existing equipment.

Enclose map showing the cell centre and adjoining cells

N/A - the proposed development is not providing radio coverage to a specified area, but is simply connecting existing base station sites via a transmission link.

Type of Structure (e.g. tower, mast, etc):

Pole-mounted dish at rooftop

Overall Height 14.5m

|  |  |
| --- | --- |
| Height of existing building (where | 30m |
| applicable) |  |
| Equipment Housing (New) |  |
| Length | n/a |
| Width | n/a |
| Height | n/a |

Materials (as applicable)

|  |  |
| --- | --- |
| Tower/mast etc – type of material and | Flagpole Rooftop Antenna |
| external colour |  |
| Equipment housing – type of material and | n/a |
| external colour |  |

Reasons for choice of design

The choice of the dish size is due to a technical requirement. The proposed dish bearing is necessary to accurately transmit to the target dish at the other end of the link. The proposed height is necessary to avoid any physical obstructions to transmission, and to give adequate access to enable safe maintenance of the installation.

There is little choice in the aesthetics of the equipment as the dish takes its form as a result from the engineering requirement for the antenna type. Having regard to the above, the design is entirely dependent upon the technical requirements of the network.

1. **Technical information**

|  |  |  |
| --- | --- | --- |
| ICNIRP Declaration attached |  | N/A |
| ICNIRP public compliance is determined by |  |  |
| mathematical calculation and implemented by careful |  |  |
| location of antennas, access restrictions and/or barriers |  |  |
| and signage as necessary. Members of the public |  |  |
| cannot unknowingly enter areas close to the antennas |  |  |
| where exposure may exceed the relevant guidelines. |  |  |
| When determining compliance the emissions from all |  |  |
| mobile phone network operators on the site are taken |  |  |
| into account. |  |  |
|  |  |
| Frequency | N/A |
|  |  |
| Modulation characteristics2 | N/A |
|  |  |
| Power output (Expressed in EIRP in dBw per carrier) | N/A |
| In order to minimise interference within its own network |  |  |
| and with other radio networks Airwave Ltd operates its |  |  |
| network in such a way that radio frequency power |  |  |
| outputs are kept to the lowest levels commensurate with |  |  |
| effective service provision. |  |  |
| As part of Airwave Solutions Ltd’s network, the radio |  |  |
| base station that is the subject of this application will be |  |  |
| configured to operate in this way. |  |  |
| Height of antenna (m above ground level) | 14.5m |
|  |  |  |

1. **Technical Justification**

Enclose predictive coverage plots

Reason(s) why site required e.g. coverage, upgrade, capacity (map attached if required)

Although the Airwave service already meets stringent reliability criteria, the Government requires further enhancement, known as Airwave Kilostream Replacement Project (AKRP), to a large percentage of the Airwave base station network. This involves providing a network of radio links between existing base stations using line of sight dish antennas to replace the existing ground based copper cable network links.

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

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

**6. Site selection process – alternative sites considered and not chosen**

As this is an upgrade of the existing site, there are no discounted sites.

**Additional relevant information**

**Siting and Visual Appearance**

The proposed dish will be installed at the existing telecommunications site at the rooftop.

The equipment already installed is a 4-stack antenna on top of the plant room as detailed on the drawings included within the application. The addition of a 0.2m transmission dish attached to a new pole mount sited on the side of the existing plant room will have a minimal visual impact on the landscape.

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| --- | --- | --- | --- |
| **Contact Details** |  |  |  |
| **Name** | **Jack Howard** | **Telephone** | **+44 (0) 7952 316 580** |
|  |  |  |  |  |
| **Operator** | **Airwave Solutions Ltd** | **Fax no** |  |
|  |  |  |  |  |
| **Address** | **Charter Court** | **Email address** | **jack.howard@mcgee.co.uk** |
|  |  | **50 Windsor Road** |  |  |
|  |  | **Slough** |  |  |
|  |  | **Berkshire** |  |  |
|  |  | **SL1 3EJ** |  |  |
|  |  |  |  |  |
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| --- | --- | --- | --- |
| **Signed** |  | **Date** | **13/06/2017** |
|  |  |  |  |
| **Position** | **Acquisition Surveyor** | **Company** | **McGee Networks** |
|  |  | **(on behalf of the** |  |
|  |  | **above operator)** |  |
|  |  |  |  |