

## Site Specific Supplementary Information

### 1. Site Details

|                        |                     |              |                                                      |
|------------------------|---------------------|--------------|------------------------------------------------------|
| Site Name              | Brombil Farm        | Site Address | Brombil Farm, Margam, Port Talbot, Swansea, SA13 2SR |
| NGRs                   | E 278822 / N 187577 |              |                                                      |
| Site Ref               | 26092/NPT020        |              |                                                      |
| Site Type <sup>1</sup> | Macro               |              |                                                      |

### 2. Pre-Application Check List

#### Site Selection

|                                                                                       |     |
|---------------------------------------------------------------------------------------|-----|
| Was an LPA mast register used to check for suitable sites by the operator or the LPA? | No  |
| The application seeks to upgrade an existing base station                             |     |
| Was the industry site database checked for suitable sites by the operator?            | Yes |
| If no explain why - N/A, upgrade of existing site                                     |     |

#### Annual Rollout Consultation with LPA

|                                                     |                        |
|-----------------------------------------------------|------------------------|
| Date of last annual rollout information/ submission | Autumn 2018            |
| Name of contact                                     | Chief Planning Officer |
| Summary of outcome/Main issues raised - N/A         |                        |

#### Developer's Notice – only required for an application for prior approval

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Copy of Developer's Notice enclosed | Yes                                         |
| Notice sent by Recorded Email       | 08/10/2021<br>Proof of Delivery is enclosed |

### 3. Proposed Development

|                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Proposed Site:                                                                                                                                                                                                                                      |
| Brombil Farm, Margam, Port Talbot, Swansea, SA13 2SR                                                                                                                                                                                                    |
| Description of Development:                                                                                                                                                                                                                             |
| Removal of 1no existing 15m monopole, associated antennas and 4no equipment cabinets to be replaced with 1no new 20m monopole accommodating 9no new antennas and 1no relocated 600mm dish with 6no new cabinets and associated ancillary works thereto. |

  

|                                                                                            |
|--------------------------------------------------------------------------------------------|
| Enclose map showing the cell centre and existing sites within the cell and adjoining cells |
| N/A – upgrade of an existing site                                                          |

<sup>1</sup> Macro or Micro

Site Photo



|                                                                                                                                                                                                                                                                                                                                     |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Type of Structure (e.g. tower, mast, etc)                                                                                                                                                                                                                                                                                           | Monopole                                      |
| Overall Height                                                                                                                                                                                                                                                                                                                      | 20 metres                                     |
| Height of Existing Building (if applicable)                                                                                                                                                                                                                                                                                         | 15 metres (existing mast)                     |
| Equipment Housing                                                                                                                                                                                                                                                                                                                   | WxDxH (in mm)                                 |
| EE Unilateral cabinet (x2)                                                                                                                                                                                                                                                                                                          | 770 x 770 x 2200                              |
| H3G Unilateral cabinet (x2)                                                                                                                                                                                                                                                                                                         | 770 x 770 x 2310                              |
| Mk 5 Link/AC cabinet                                                                                                                                                                                                                                                                                                                | 1200 x 600 x 1600                             |
| UMTS Stack cabinet                                                                                                                                                                                                                                                                                                                  | 770 x 770 x 2200                              |
| Materials (as applicable)                                                                                                                                                                                                                                                                                                           |                                               |
| Tower/mast etc – type of material and external colour                                                                                                                                                                                                                                                                               | Galvanised Steel – manufactured grey RAL 7035 |
| Equipment housing – type of material and external colour                                                                                                                                                                                                                                                                            | Galvanised Steel – manufactured grey RAL 7035 |
| Reasons for choice of design:                                                                                                                                                                                                                                                                                                       |                                               |
| Efforts have been made to utilise the existing apparatus of this base station as much as possible to minimise the level of visual impact to the surrounding area. The least amount of equipment has been used in order to create a similar likeness to the existing site whilst also achieving the operators' technical objectives. |                                               |

4. Technical Information

|                                                                                                                                                                                                                                                                                                                 |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| ICNIRP Declaration attached                                                                                                                                                                                                                                                                                     | Yes |
| ICNIRP public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines. |     |
| When determining compliance the emissions from all cellular operators on the site are taken into account.                                                                                                                                                                                                       |     |

|                                                     |                                                   |
|-----------------------------------------------------|---------------------------------------------------|
| Frequency                                           | GSM 1865.5-1846.5 MHz                             |
| Modulation Characteristics <sup>2</sup>             | GMSK & UMTS                                       |
| Power Output (expressed in EIRP in dBW per carrier) | 56 dBm                                            |
| Height of Antenna (m above ground level)            | 17.13, 18.65 & 19.68 metres to centre of antennas |

## 5. Technical Justification

Reasons why site is required: e.g. coverage, upgrade, capacity

There is a technical requirement to upgrade this existing base station in order to improve existing 3G and 4G coverage in the operators' target area. The proposed works will also provide 5G coverage as part of the applicant's aim to satisfy current and future demands.

Site Selection Process – alternative sites considered and not chosen

|                 |            |            |
|-----------------|------------|------------|
| Discount Option | NGRs       | Reasons    |
| <b>N/A</b>      | <b>N/A</b> | <b>N/A</b> |

If no alternative site options have been investigated, please explain why:

Proposal seeks to upgrade an existing telecommunications base station and therefore no alternative site options are required.

Additional Relevant Information:

### **Contact Details**

|           |                                                                                     |           |                                                                            |
|-----------|-------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------|
| Name      | Mandy Poon                                                                          | Telephone | 0161 956 4123                                                              |
| Operators | EE Limited & H3G UK Limited                                                         | Mobile    | 0787 593 4974                                                              |
| Address   | Norfolk House<br>7 Norfolk Street<br>Manchester<br>M2 1DW                           | Email     | <a href="mailto:mandy.poon@avisonyoung.com">mandy.poon@avisonyoung.com</a> |
| Signed    |  | Company   | Avison Young<br>On behalf of Mobile Broadband<br>Network Limited           |
| Position  | Assistant Planner                                                                   | Date      | 11/10/2021                                                                 |

<sup>2</sup> 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.