Cuadrilla Bowland Ltd
Temporary Shale Gas Exploration
Preston New Road, Lancashire

Utilities Statement

PNR_PL_Utilities Statement
May 2014
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## Appendices

### Appendix A

Utility Record Plans
1 Introduction

This Utilities Statement has been prepared by Ove Arup & Partners Ltd (Arup) on behalf of Cuadrilla Bowland Ltd (Cuadrilla) in support of planning applications to Lancashire County Council (LCC) for temporary shale gas exploration works at a site close to Preston New Road, near Little Plumpton, Lancashire. Its purpose is to identify utility apparatus in and around the area; state how the site will connect to the local utility network; and to assess how these networks may be affected by the proposed development.

This statement describes the impacts on the existing electricity, gas, water, foul drainage and telecommunications networks. Surface water drainage is covered in the site-specific Flood Risk Assessment.

This FRA has been prepared to support two separate planning applications associated with the Project, and has therefore been structured accordingly:

- The Exploration Works (comprising the Exploration Site [well pad], Access and Extended Flow Test)
- Monitoring Works
2 Existing Utilities (Exploration Works)

2.1 Sources of Information

Plans were obtained through Groundwise Ltd. in November 2013 and provided by Cuadrilla to confirm utility apparatus that may be present within the vicinity of the Preston New Road site. Copies of these plans can be found in Appendix A.

Gas, electricity, water and telecommunication apparatus have been identified within the vicinity of the site (distances quoted below generally refer to the distance from the well pad where the principal activities will take place).

Confirmation has been received from the following utility providers that they do not have apparatus within the vicinity of the site:

- BSKYB
- CityFibre
- McNicholas (KPN and TATA)
- Verizon
- SSE Pipelines Ltd / Neos Networks
- OFCOM
- Orange
- Trafficmaster
- KCOM
- Energetics
- Colt
- Instalcom (inc.Level 3)
- Interoute

Plans provided by United Utilities (UU) show that there are no public sewers within the area surrounding the site.

2.2 Utilities in Close Proximity to the Site

From the utility records obtained, no utility apparatus was identified within the site boundary.

Water, gas, electricity and telecoms apparatus have been identified in close proximity to the site, as described below. The presence of these utilities identified will be stated in the Cuadrilla site H&S Manual and locations shown on site notice boards.

2.2.1 Gas

A number of low and medium and high pressure gas mains are present in Preston New Road and can be seen on National Grid gas plans provided in Appendix A.

There is a 12” diameter medium pressure steel gas main that runs alongside Preston New Road. This is located approximately 100m to the south of the site. This supplies the low pressure mains in Little Plumpton. The medium pressure main continues eastwards past Little Plumpton along Preston New Road, with a
branch running north along Plumpton Lane, approximately 600m to the east of the site.

High pressure mains forming part of the Local Transmission System is located approximately 400m to the south of the site running east to west, with another main located 800m to the west of the site running north to south.

2.2.2 Electricity Cables

Records show buried electricity cables running along Preston New Road approximately 100m to the south of the site, with tails connecting into local properties.

Overhead cables are also shown approximately 330m to the west of the site running across local fields, and alongside Plumpton Lane, approximately 580m to the east. A plan is provided in Appendix A. The overhead cables do not enter the site boundary and will not be disturbed by the proposed development.

2.2.3 Water mains

A 15” diameter UU water main (potable water) passes approximately 15m to the western corner or the site. Records show this as a cast iron pipeline constructed in 1923. There is also a UU 33” diameter cast iron water main which passes approximately 100m to the southern corner in Preston new Road and a 15” diameter cast iron UU water main which passes approximately 600m from the eastern corner.

2.2.4 Telecommunications

BT Openreach records show that there is apparatus running alongside Preston New Road approximately 100m south if the site (see Appendix A). This does not enter the site boundary and will not be disturbed by the proposed development.

Records also show a Virgin Media telecommunications cable running east to west approximately 150m south if the site (see Appendix A). Plans obtained by Groundwise identify Vodafone apparatus (formally Cable & Wireless and Energis) within Preston New Road to the south the site. None of this apparatus enters the site boundary and it will not be disturbed by the proposed development.
3 Existing Utilities (Monitoring Works)

The monitoring works have been located generally to avoid conflict with existing utilities networks.

In addition, prior to the construction of these installations, Cuadrilla’s Contractor(s) will undertake a review of safe dig records to identify locations of any utility apparatus and define the exact location of a monitoring point which avoids any conflict (e.g., moving a meter or two to one side). Where working close to existing utilities infrastructure, relevant industry standard procedures and working practices for working near these assets will be followed.
4 Physical Impacts on Existing Utility Networks from the Exploration Works

4.1 Effects of Induced Seismicity

Hydraulic fracturing of the wells forms part of the operation to extract shale gas. The hydraulic fracturing process has the potential to cause small seismic tremors [induced seismicity].

For the Preston New Road site and the surrounding areas, the mechanism of hydraulic fracturing and the risk of induced seismicity has been assessed in the Environmental Impact Assessment and is reported in the Environmental Statement (ES) accompanying the Planning Applications. In exceptional circumstances, hydraulic fracturing may induce a seismic event that can be felt at the ground surface. It is therefore considered prudent to assess the potential for ground borne vibrations to damage utilities infrastructure under these exceptional circumstances. This has been assessed using information from the Induced Seismicity chapter of the ES.

Considering the mitigation measures that will be implemented as part of the Project, a maximum magnitude seismic event induced by hydraulic fracturing operations is estimated to be approximately 1.5 M_L. However, to mitigate against this risk, a “Traffic Light System” will be implemented to monitor seismicity and to ensure that hydraulic fracturing activities will be stopped and the well depressurised if vibrations are recorded which reach the pre-agreed trigger levels (0.5 M_L). This is discussed further in the Induced Seismicity chapter of the ES.

It is considered that the source of an induced seismic event may be anywhere within the area defined by the below ground site extent red line drawing (see Planning Application drawings). This comprises an area that extends for approximately 2km west of the Preston New Road site. The minimum depth epicentre of an induced seismic event is likely to occur at approximately 1.95km depth (i.e. within the shale rock formations).

Based on the analysis of the ground motion hazard associated with hydraulic fracturing at the Preston New Road site, it is anticipated that a 1.5 M_L induced seismic event could produce maximum ground motions at the surface in the region of 0.4 to 1.8mm/s (mean and 95percentile/worst case values respectively). These vibrations will reduce with distance from the source location.

To put these values into context, Table B1 in BS5228-2:2009 has been reproduced as Table 1 below presenting the response of humans to various levels of ground borne vibrations to allow comparison. It is noted that the maximum levels of vibrations anticipated for a 1.5 M_L induced seismic event (0.4 – 1.8

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1 “Code of Practice for Noise and Vibration Control on Construction and Open Sites. Vibration.”

BSI Dec 2008
mm/s) are around the level at which vibrations may be just felt by humans at the ground surface (It is noted that depending on the sensitivity of the environment (i.e. time of day, type of building) and the frequency of the vibrations, the response of humans may be greater or smaller).

Table 1 - Guidance on human response to construction vibration from BS 5228-2:2009.

<table>
<thead>
<tr>
<th>Ground Vibration $M_L$(Peak Particle Velocity) mm/s</th>
<th>Response</th>
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<tbody>
<tr>
<td>0.14</td>
<td>Vibration might be just perceptible in the most sensitive situations for most vibration frequencies associated with construction. At lower frequencies, people are less sensitive to vibration.</td>
</tr>
<tr>
<td>0.3</td>
<td>Vibration might be just perceptible in residential environments.</td>
</tr>
<tr>
<td>1.0</td>
<td>It is likely that vibration of this level in residential environments will cause complaint, but can be tolerated if prior warning and explanation has been given to residents.</td>
</tr>
<tr>
<td>10</td>
<td>Vibration is likely to be intolerable for any more than a very brief exposure to this level.</td>
</tr>
</tbody>
</table>

BS5228-2:2009 states that, in the absence of specific criteria from utility asset owners, services [utilities] should not be subjected to a maximum peak particle velocity (PPV) greater than 30mm/s. BS5228-2:2009 also states that a PPV of 30 mm/s gives rise to a dynamic stress which is equivalent to approximately 5% of the allowable working stress in typical concrete construction and less in iron or steel.

National Grid guidelines for vibrations in the vicinity of high pressure gas mains\(^2\) state that pipelines shall be limited to a maximum PPV of 75mm/s for vibration inducing operations such as piling, demolition and/or blasting, to prevent damage to the asset.

Based on the assessment of induced seismicity and the predicted ground motions for a 1.5 $M_L$ event of 0.4 to 1.8mm/s, it is considered highly unlikely that the structural integrity of the gas pipelines, UU water mains, electricity cables or telecommunications cables in the vicinity of the Preston New Road site would be damaged or affected by the ground motions associated with hydraulic fracturing at the Preston New Road site.

4.2 Vibrations from Heavy Plant

4.2.1 HGV movement in Public Highway

Since gas, water, electricity and telecommunication mains are present within Preston New Road, National Grid, UU, ENWL and BT should be contacted by the Contractors to confirm that at no specific protection measures are required whilst large plant is brought on to site, particularly at proposed site entrance/access.

However, since these assets are installed in public highway subject to HGV loads, it is assumed that these utilities are located at depths in accordance with National Joint Utilities Group (NJUG) guidelines. Therefore it is not envisaged that any additional protection works will be required in the highway for normal road-going plant. However, BT Openreach assets and a National Grid gas main may be located in the grass verge and are likely to require protection and/or lowering in order to construct the proposed accesses. These works will be undertaken by the affected utilities company or their approved subcontractors.

4.2.2 Vibration from Surface Activities within the Site

Activities on the site, including vehicle movements, will cause ground borne vibration. The figure below compares the predicted maximum vibrations from induced seismicity (0.4mm/s to 1.8mm/s PPV) with vibration from various sources that might otherwise be present in a typical construction environment.

For comparison purposes, Figure 1 includes vibration from a HGV passing over a 20mm surface defect, which may occur, for example, where there is a poorly reinstated trench. Other activities are those that might be required during highway maintenance works and some heavier engineering, including piling. Many of these are likely to be used from time to time in the vicinity of buried utilities and other structures.

The levels of vibrations created from construction operations and vehicle movements are in a similar order of magnitude as those which could be created by an induced seismic event. Compared to published guidance on the vulnerability of services, as described above, it is therefore concluded that the utilities should not be affected by vibrations from heavy plant or machinery activity within the site.
Figure 1 – Comparison of ground borne vibrations vs source distance

Notes:

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![Comparison of ground borne vibrations vs source distance](image-url)
5 Physical Impacts on Existing Utilities Networks from the Monitoring Works

There are no anticipated impacts on existing utilities from the installation or operation of the monitoring works. Should it be required, the array point can be moved locally (ie by a metre or two) to avoid any impact on existing utilities networks.
6 Utility Supplies to the Exploration Works

6.1 Electricity

Electrical power is required on site during operational phases (mobilisation, hydraulic fracturing and flow-back testing) of the development. Due to the exploratory stage of the project, the principal electrical demand for the site will be met by on-site generators.

A connection may be made to the electricity network to provide small power requirements to supply offices, welfare facilities, site lighting etc. at the site. This will be a low voltage connection which is not envisaged to impact significantly on local network capacity.

6.2 Water Supply

The principal water demand from the site is during the hydraulic fracturing operations. During other times, water will be required to support the drilling operation, site cleaning and welfare operations.

The water demand during hydraulic fracturing operations is anticipated to be approximately 765m$^3$ of water per day (a maximum of one hydraulic fracturing stage will be carried out in a single day). This water will be supplied from the United Utilities (UU) potable water network.

UU have confirmed that the 15” trunk main to the western corner of the site has the capacity to supply the site without restrictions (see Appendix S of the ES for confirmation). UU have reported that the main has a history of bursts so installation of a pressure management valve (PMV) and flow meter would be required in order to reduce the burst risk. UU have also stated it may be possible to re-zone their network so the site would be the only user of the main.

6.3 Foul Drainage

Domestic foul drainage from site welfare facilities will be routed into temporary storage facilities on site which will then be periodically tankered to nearby wastewater treatment works. Therefore, no connection to a public sewer is required. Blackwater (toilet) and greywater (welfare, sinks and canteen) drainage will be kept separate.

6.4 Return Water

Return waters refer to both ‘flowback fluids’ and ‘produced water’ returned after the hydraulic fracturing process. Flowback fluid is the proportion of the fluid used for fracturing operations which flows back to the surface on release of the pressure within the system. Flowback fluid can be contaminated with minerals, hydrocarbons and Naturally Occurring Radioactive Materials (NORM) and is returned to the surface following well stimulation. Produced waters are waters present in geological formations that may be released during the extraction of gas. The produced waters may also contain minerals, hydrocarbons and NORM.
Return waters from hydraulic fracturing and flow testing will be collected and disposed of at wastewater treatment facilities specifically licenced to treat this wastewater.

The quantities of return waters from the operation of the proposed development have been confirmed to be within the capacity of the individual treatment facilities.

### 6.5 Other Waste Waters

Rainwater collected on the site during the drilling and hydraulic fracturing process will be collected and removed from site via a tanker. This waste water will be disposed of at a suitably licenced wastewater treatment works.

There will also be a requirement to deal with waste drilling water and drilling muds used and generated during the well drilling phase of the project. These will be recycled on site where possible and resulting wastewater will be tankered off site to a suitably licenced wastewater treatment works.

### 6.6 Gas

For the Extended Flow Test phase of the works two connections to the gas grid may be made in order to discharge of gas yielded from the wells and measure the change in gas flow rate over time. Connections will be made into the Local Transmission System at a point approximately 800m to the west of the well pad, with a second connection to the Medium Pressure main running along Preston New Road. Consultation with National Grid has confirmed that these mains have sufficient capacity to accept the likely gas flows that may be generated from the site. The connections would be made via a buried, 150mm diameter steel or plastic pipeline from the site. Liaison with National Grid regarding the technical details of this connection is on-going.

A connection to the gas main may also be made to provide small scale gas requirements to offices, welfare facilities etc. at the site. This will not impact significantly on local network capacity.

### 6.7 Telecommunications

Broadband communications to the site will be provided via connection to the buried telecommunications infrastructure running along Preston New Road.
Utilities Supplies to the Monitoring Works

During construction of the Monitoring Works, power, water and communication requirements will be met by temporary generators, water bowsers and mobile phones.

Surface Array (Traffic Light System)

The surface array is a network of shallow buried seismic monitoring stations which comprise shallow pits (to a depth of approximately 0.5m below ground level) within which sensitive seismometers will be located. The installation of each surface array station will also include small junction boxes (glass reinforced plastic kiosks approximately 1.1m high and located between 1 to 3m from the seismometer).

The buried arrays sites do not require any connection to permanent utility apparatus. They rely on mobile phone communications and battery power equipment during operation to run the seismometer, data logging equipment, modem and GPS units.

Buried Array

The buried array will comprise deep buried (up to a depth of approximately 100m below ground level) seismic monitoring stations containing seismometers. The surface treatment of these will comprise a small concrete pad or collar for with an inspection cover mounted flush with the ground surface.

The buried arrays sites do not require any connection to permanent utility apparatus. They rely on mobile phone communications and battery power equipment during operation to run the seismometer, data logging equipment, modem and GPS units.

Groundwater Monitoring Boreholes

Boreholes will be sunk to allow water samples to be taken from underlying aquifers. The monitoring boreholes do not require any permanent utilities connections.
8 Conclusions

8.1 Exploration Works

There is no existing utility apparatus present within the Preston New Road site boundary. Records supplied by Cuadrilla show water, gas, electricity (buried and overhead) and telecommunication apparatus within the vicinity of the site.

The 15” diameter UU potable water main located approximately 15m from the western corner of the site is has the capacity to meet the potable water requirements of the site, but since the main has a history of bursts, installation of a Pressure Management Valve will be required to facilitate its use.

For Extended Flow Testing, connections will be made into the high pressure gas main located approximately 800m to the west of the site and the Medium Pressure mains running to the south of the site along Preston New Road.

The risk of potential damage to utility networks from ground-borne vibrations is considered extremely low as predicted maximum ground motions at the surface in the region of 0.4 to 1.8mm/s are well below those of guidance thresholds which could result in damage.

The principle electrical demand from the site will be met by on-site generators.

Small power (electricity and gas) and telecommunications supplies to offices, welfare units etc will be met via connections to the local networks located in Preston New Road.

Foul water and other waste waters will be tankered off site to appropriately licensed wastewater treatment facilities and no connection to public sewers is to be sought.

8.2 Monitoring Works

There are no anticipated impacts on existing utilities from the installation or operation of the monitoring works.

During construction of the monitoring works, power, water and communication requirements will be met by temporary generators, water bowser and mobile phones.

The monitoring works sites do not require any connection to permanent utility apparatus. They rely on mobile phone communication and battery operated equipment during operation to power data logging equipment, modem and GPS units.
Appendix A
Utility Record Plans
A1  Affected Utilities
WARNING! This area contains Gas Mains Operating at High Pressure in Excess of 7 bar. Before excavating in the area call 0800 888588.

This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.
This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm). A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.
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A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.
Date: 12/11/2013
Our Ref: NW_TW_Z3_3SW_045807
Your Ref: 12583JS

RE: Proposed Works, Plumpton site, Off Preston New Road, Westby, Lancashire

Thank you for your enquiry which was received on 12/11/2013.

Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

For details of National Grid's network areas please see the National Grid website (http://www.nationalgrid.com/uk/Gas/Safety/work/) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.
Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does NOT include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is YOUR responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the National Grid Plant Protection team via e-mail (click here) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team
ASSESSMENT

Affected Apparatus
The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment
- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

Requirements

BEFORE carrying out any work you must:

- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at http://www.hse.gov.uk
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.
GUIDANCE

High Pressure Gas Pipelines Guidance:
If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from:

Excavating Safely - Avoiding injury when working near gas pipes:

Standard Guidance

Essential Guidance document:

General Guidance document:

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:
http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/
ENQUIRY SUMMARY

Received Date
12/11/2013

Your Reference
12583JS

Location
Centre Point: 337287, 432949
X Extent: 920
Y Extent: 960
Postcode: PR4 3PF
Location Description: Plumpton site, Off Preston New Road, Westby, Lancashire

Map Options
Paper Size: A3
Orientation: PORTRAIT
Requested Scale: 10000
Actual Scale: 1:10000 (GAS)
Real World Extents: 2890m x 3670m (GAS)

Recipients
tcoyte-broomfield@groundwise.com

Enquirer Details
Organisation Name: Groundwise Searches Ltd
Contact Name: Toby Coyte-Broomfield
Email Address: tcoyte-broomfield@groundwise.com
Telephone: 01702615566
Address: Suite 8 Chichester House, 45 Chichester Road, Southend on Sea, Essex, SS1 2JU

Description of Works
Feasibility Study

Enquiry Type
Proposed Works

Activity Type
General Excavation

Work Types
Work Type: Plans Only
Search Results

Thank you for your enquiry: LS-131112-DJ-893-LKV

Your enquiry has also been forwarded to our enhanced enquiry service LinesearchbeforeUdig to be searched against their registered asset owners. You will receive an emailed enquiry confirmation response from them shortly.

THE RESULTS OF THAT LINESEARCHBEFOREUDIG RESPONSE MUST BE READ IN CONJUNCTION WITH THIS LINESEARCH RESPONSE - YOU WILL FIND THIS LS REF NUMBER IS RECORDED ON THE CORRESPONDING LSBUD RESPONSE.

Subject always to our standard terms and conditions, this enquiry result is valid for 28 days only from the date of enquiry and is based on the confirmed information you entered. If the location of the work changes then a further enquiry must be made. Should the work not be undertaken within 28 days of the enquiry then a further enquiry must be made.

<table>
<thead>
<tr>
<th>ENQUIRER DETAILS</th>
<th>ENQUIRY DETAILS</th>
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</thead>
<tbody>
<tr>
<td>Name: Mr Toby Broomfield</td>
<td>Your reference: 12583JS</td>
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<tr>
<td>Company: Groundwise Searches Limited</td>
<td>Your location: 337358 432942</td>
</tr>
<tr>
<td>Email: <a href="mailto:TCoyle-Broomfield@groundwise.com">TCoyle-Broomfield@groundwise.com</a></td>
<td>Confirmed location: OS grid reference (337358 432942)</td>
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<tr>
<td>Tel: 01702 615566</td>
<td>Estimated start date: 28th February 2014</td>
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<tr>
<td></td>
<td>Planned works: No</td>
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<tr>
<td></td>
<td>Type of work: Excavations Non Utility - Private services</td>
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<td></td>
<td>Distance covered: 1000 metres</td>
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IN THE ZONE OF INTEREST

Operator: National Grid Gas (above 2 bar) and National Grid Electricity Transmission

Your enquiry has been sent to National Grid Plant Protection for processing. You will receive a personalised response to your enquiry directly from them shortly.

IN AN EMERGENCY CONTACT: GAS 0800 111 999 ELECTRICITY 0800 40 40 90

National Grid Gas (above 2 bar) and National Grid Electricity Transmission
Plant Protection
Block 1
Brick Kiln Street
Hinckley
Leicestershire
LE10 0NA

If you have any urgent questions please call 0800 688 588

NOT IN THE ZONE OF INTEREST

<table>
<thead>
<tr>
<th>BOC Limited (A Member of the Linde Group)</th>
<th>LinesearchbeforeUdig Asset Owners</th>
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<tbody>
<tr>
<td>BPA</td>
<td>Mainline Pipelines Limited</td>
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<td>Centrica Energy</td>
<td>Manchester Jetline Limited</td>
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http://www.linesearch.org/search/process/results-print

12/11/2013
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<tr>
<th>Centrica Storage Ltd</th>
<th>Marchwood Power Ltd (Gas Pipeline)</th>
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<tr>
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<td>NPower CHP Pipelines</td>
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<tr>
<td>Coryton Energy Co Ltd (Gas Pipeline)</td>
<td>Oikos Storage Limited</td>
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<td>Perenco UK Limited (Purbeck)</td>
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<td>Esso Petroleum Company Limited</td>
<td>Phillips 66</td>
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<tr>
<td>FibreSpeed Limited</td>
<td>Premier Transmission Ltd (SNIP)</td>
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<tr>
<td>Geo Networks Limited</td>
<td>RWEnpower (Little Barford and South Haven)</td>
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<td>INEOS Manufacturing (Scotland and TSEP)</td>
<td>Wingas Storage UK Ltd</td>
</tr>
<tr>
<td>Ineos Enterprises Limited</td>
<td>York Potash</td>
</tr>
</tbody>
</table>

Thank you for your enquiry, there is no further action necessary.

Please note
The Linesearch.org system only contains information on National Grid's Gas above 2 bar asset and all National Grid Electricity Transmission asset. For National Grid Gas below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

Please quote the Linesearch enquiry reference number in *all* correspondence

Please print this screen for your records.

This service is brought to you by Fisher German ©2013
System by byte9
SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.

2. We own gas; electricity and water apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.

3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity and water networks.

4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.

6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.

7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.
8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.

9. Costs incurred by GTC through direct or consequential damage will be recharged.

Precautions for Gas Networks

10. Plans do not always show the presence of gas pipes cables (from the gas main to premises) but their existence should be assumed.

11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.

14. If a gas leak is suspected, the following action should be taken immediately:
   - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
   - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
   - Inform National Grid by dialling 0800 111 999
   - Remain on site.
   - Assist National Grid staff, Police or Fire Services as requested.
15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.

17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.

18. Pipe restraints or thrust blocks close to gas mains should never be removed.

19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.

20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.

21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

22. GTC should be consulted if it is intended to carry out any of the following activities:
   - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
   - piling or boring within 15m of gas plant
   - excavating within 10m of pressure reduction equipment
   - reducing the cover or protection of a gas pipe
   - carrying out nearby deep excavations
   - working near our intermediate pressure (IP) mains.
Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.

24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.

25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.

26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These “pot ended” or “bottle ended” cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when “live”.

28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.

29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:

   • the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or

   • physical precautions have been taken to prevent the tool striking the cable.

30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.

31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.

33. Where cables have been exposed:

- any damage should be reported to GTC immediately on 0800 032 6990 and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
- for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;
- suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
- cables should not be moved aside unless the operation is supervised by GTC;
- precautions should be taken to prevent access by members of the public.

34. GTC should be consulted if it is intended to carry out any of the following activities:

- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
- excavating within 10m of a substation
- carrying out nearby deep excavations
- working near our HV plant.
Precautions for Water Networks

35. Plans do not always show the presence of water service cables (from the water main to premises) but their existence should be assumed.

36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.

39. If a water leak is suspected, the following action should be taken immediately:
   - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
   - Shut down all working plant and machinery in the vicinity of the damage
   - Inform National Grid by dialling 0800 0130 849.
   - Remain on site.
   - Do not attempt to make a repair.
   - Assist GTC, approved contractors and Police or Fire Services as requested.

40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.

41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.

42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
43. Pipe restraints or thrust blocks close to water mains should never be removed.

44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.

45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

46. GTC should be consulted if it is intended to carry out any of the following activities:
   - using explosives within 30m of plant
   - piling or boring within 15m of water plant
   - excavating within 10m of water asset structures
   - reducing the cover or protection of a water main or service
   - carrying out nearby deep excavations
Dear Sir/Madam

Re: Plumpton Site off Preston New Road Westby

In reply to your communication dated 12/11/13, stating your intention to execute works at the above site, please find enclosed the drawings locating our assets in the area requested. We have also enclosed a proposed plan of the infrastructure as the area in question is not yet complete.

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Independent Fibre Networks Limited

Should you require further assistance with locating our plant please contact GTC UC on 0845 602 2498.

All works in the vicinity of our networks should be undertaken in accordance with the attached document, IN0003. Reference should also be made to HSG47 Avoiding Danger from Underground Services.

A GAS ESCAPE OR DAMAGE, MUST BE REPORTED ON 0800 111 999. NATIONAL GRID / DNGT WILL ATTEND TO MAKE SAFE AND REPAIR.

DAMAGE TO OUR ELECTRICITY NETWORK SHOULD BE REPORTED TO ENC ON 0800 032 6990.

Yours sincerely

Maggie Ketteridge
Engineering Support Officer
GTC

Enclosure: IN0003 Safe Working in the Vicinity of Gas and Electricity
**Vodafone Network Colour:**

- Ex-Cable&Wireless UK Network (now Vodafone)
- Planned & Approved Route
- Planned Route – Awaiting Approval
- Other Licensed Operator (OLO)
- Ex-Thus Network (now Vodafone)
- Ex-Energis Network (now Vodafone)
- OLO

**Other:**

- Overhead Electricity Line (non Vodafone)
- Network Rail

**Other Licensed Operator (OLO).**

= Ex-Cable&Wireless UK, Energis and Thus fibre-optic cable within an OLO duct. Please contact all other operators for further details of their apparatus within that area.
1. **Introduction**

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Vodafone apparatus.

2. **Purpose of document**

This document provides a means by which the Vodafone specific special requirements relating to their apparatus, regardless of it being situated in the public highway / road, private street, land or any other areas, is made aware to Other Parties.
3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Vodafone apparatus to refer to and comply with. This is in order to protect where necessary the Vodafone apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG 9 titled “Recommendations for the Exchange of Records of Apparatus between Utilities” provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled “Avoiding Danger from Underground Services.”

4. Vodafone Network and Apparatus

Damage to Vodafone apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Vodafone apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Vodafone apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract.

5. Plant records

It is the responsibility of the Other Parties undertaking works which may affect Vodafone apparatus to obtain all relevant Vodafone plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in Appendix B.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements. If Vodafone plant is affected, the response will contain reference to this document. Other Parties and Contractors are advised to refer to the National Joint Utilities Group [NJUG] 9 Document which outlines recommendations for the exchange of records of apparatus between utilities.

6. Definitions

The following definitions are applicable in this document:

a) Apparatus means all electronic communications apparatus above surface, at the surface or sub-surface apparatus, Cable, Jointing Chamber and plant formerly being apparatus owned or used by the Code Operators Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited including any associated cables or ducts owned, leased or rented by the said Code Operators now owned and used by the Code Operator Vodafone Limited (“Vodafone”).

b) Cable means any polythene or other sheath containing optical fibres or metallic conductors.

c) Depth of cover means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.

d) Jointing chamber means any manhole, surface box or other chamber giving access to Vodafone apparatus or their network.

e) Utility means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.

f) Developer means an organisation licensed to develop industrial/residential premises or given license to connect to utility apparatus.
7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Vodafone of their intentions. This may be done by contacting Atkins Global, contact listed in Appendix B.

Upon receipt of this notification, Atkins Global will identify if Vodafone apparatus is affected. If any Vodafone apparatus is affected by the works then Atkins Global will provide necessary records and confirm details of Vodafone apparatus and network operated within the affected area or adjacent to the proposed work site.

7.1 Location of Plant

It is the responsibility of the Other Parties or Contractors to undertake adequate plant location procedures. These may include searches for metallic cables which must be performed by actively inducing a signal in a cable conductor via a transmitter. A passive search is not considered sufficient.

Before applying a tracing signal to the Vodafone apparatus, the Other Parties or Contractors shall seek confirmation from Atkins Global that the Vodafone apparatus will not suffer any disruption to its networks normal workings as a result of the nature of the signal being induced.

7.2 Trial excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes. Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Cable & Wireless Worldwide apparatus. All excavations adjacent to the Vodafone apparatus are to be carried out by hand until the extent and/or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

8. Depths of cover

The Other Party or Contractor should note that the minimum depths of cover for Vodafone apparatus shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Vodafone cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Vodafone requirements for the protection or diversion of their apparatus.

The Other Party or Contractor should have particular regard to the possibility of encountering Vodafone apparatus (including ducts and cables), at depths of cover other than that reported.

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Vodafone representative.

9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Vodafone and capture the HSG47 requirements.
9.1 High voltage cables
High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 mm.
High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 mm.
In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.2 Low voltage cables
Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 mm. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.3 Ancillary electrical apparatus
Lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 mm from underground Company Apparatus and 600mm clearance from above ground Company Apparatus.

9.4 High pressure gas mains and other Undertakers plant/equipment
High pressure gas mains shall have a minimum clearance of 450 mm from Company Apparatus. All other undertakers’ plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200mm. Where gas mains cross Company Apparatus, the minimum clearance shall be 200mm. All other undertakers’ plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 mm.

9.5 Other Undertakers plant
Other undertakers’ plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200mm. All other undertakers’ plant and equipment when running across Company Apparatus shall have a minimum clearance of 100mm.

9.6 Tramways
Each separating distance shall be individually agreed with the Company Representative.
10. Jointing chambers

10.1 Protection
Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Vodafone representative.

All Vodafone jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Vodafone for the maintenance of its apparatus, must be maintained at all reasonable times.

10.2 Access
The covers to Vodafone jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Cable& Wireless Worldwide representative. Other Parties or Contractors shall not enter any Vodafone jointing chamber and / or apparatus unless under the supervision of a Vodafone representative and in any case not before the mandatory gas test has been carried out in the presence of Vodafone representative and such checks have shown it to be safe to enter the Vodafone chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Vodafone apparatus and chambers when required.

11. Notification periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Vodafone apparatus, the Other Party or Contractor shall give the Vodafone agent Atkins Global [as indicated at Appendix B] at least 7 working days notice in writing of the intended date to commence operations.

No excavation should be made without first consulting the relevant Vodafone apparatus layout drawings, which will be made available from the Vodafone agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Bristol Plant Enquiries Team as soon as possible to assess the situation.

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements – FCR) around Vodafone apparatus, Atkins Global (as agent for Vodafone) shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised. Such notice shall not be less than 3 working days.

12. Excavation and backfill

All excavations adjacent to Vodafone apparatus are to be carried out by hand until the extent and or location of the Vodafone apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Vodafone representative or a given exemption.

Shuttering of the excavation or support to Vodafone apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Vodafone representative.

At least 7 working days notice must be given to Vodafone in order that any special protective measures which may be required to protect Vodafone apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.

Other Parties or Contractors are advised to refer to the National Joint Utilities Group [NJUG] 4 Document which outlines the identification of small buried mains and services.
13. **Foam concrete**

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 mm of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

14. **Attendance of Company Representative**

If a situation requires the attendance on site of a Vodafone representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements.

15. **Damage reports**

In the event of any damage whatsoever occurring to Vodafone apparatus, the Other Party or Contractor shall immediately inform Vodafone by contacting Julia Burgoyne, (for contact details please refer to Appendix B).

All relevant costs of any subsequent repair and / or removal of the Vodafone apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.
Appendix A - office address details

Glasgow Office
Vodafone
Pavillion 1
1 - 2 Berkeley Square
99 Berkeley Street
Glasgow
G3 7HR

Bristol Office
Vodafone
Unit 1,
Tamar Road
St Philips
Bristol
BS2 0TY

Manchester Office
Vodafone
Unit M
Atlas Business Park
Wythenshawe
Manchester
M22 5RR
# Appendix B – Street Works Team Contacts for Vodafone

<table>
<thead>
<tr>
<th>Function</th>
<th>Name</th>
<th>Job Title</th>
<th>Address</th>
<th>Phone</th>
<th>Mobile</th>
<th>Fax</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co-ordination</td>
<td>Sandra Semple</td>
<td>National Street Works Manager</td>
<td>Glasgow Office (see above)</td>
<td>0141 303 2857</td>
<td>07775 792133</td>
<td>0141 300 9611</td>
<td><a href="mailto:sandra.semple@cw.com">sandra.semple@cw.com</a></td>
</tr>
<tr>
<td>Customer Complaints</td>
<td>CMC</td>
<td>Customer Management Centre</td>
<td>n/a</td>
<td>08456 021585</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Liability Claims</td>
<td>Julia Burgoyne</td>
<td>Major Incident Resolution Coordinator</td>
<td>Bristol Office (see above)</td>
<td>01454 895114</td>
<td>07803 259857</td>
<td>n/a</td>
<td><a href="mailto:julia.burgoyne@cw.com">julia.burgoyne@cw.com</a></td>
</tr>
<tr>
<td>Diversionary Works</td>
<td>Samantha Wilkinson</td>
<td>C3 Diversionary Works Project Controller</td>
<td>Manchester Office (see above)</td>
<td>0161 423 2740</td>
<td>n/a</td>
<td>n/a</td>
<td><a href="mailto:samantha.wilkinson@cw.com">samantha.wilkinson@cw.com</a></td>
</tr>
<tr>
<td>Emergencies</td>
<td>CMC</td>
<td>Customer Management Centre</td>
<td>n/a</td>
<td>08456 021585</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Plant Enquiries-</td>
<td>Plant Enquiries</td>
<td>n/a</td>
<td>Atkins Global PO Box 290</td>
<td>01454 662881</td>
<td>n/a</td>
<td>01454 663330</td>
<td><a href="mailto:Osm.Enquiries@atkinsglobal.com">Osm.Enquiries@atkinsglobal.com</a></td>
</tr>
<tr>
<td>Including Thus Plc,</td>
<td>Team</td>
<td></td>
<td>500 Aztec West,</td>
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<tr>
<td>(formerly Scottish</td>
<td></td>
<td></td>
<td>Bristol, BS32 4RZ</td>
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<td>Telecom), Your Comms</td>
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<tr>
<td>Energis &amp; Mercury</td>
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<tr>
<td>Communications</td>
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</tr>
</tbody>
</table>
16. About this Document

Content Owner

Price, David J

Changes since last version

Reformatted using the current Vodafone template.

End of Document
A2 Unaffected Utilities
You recently requested information pertaining to the above location and in relation to CityFibre Holdings Ltd plant.

I can confirm that at this current time we have **NO PLANT** which may be affected by your proposed works.

However, due to the nature of our works this could change dependant on the roll out of the programmes. The validity of this response is 6 weeks, after such time a new enquiry would need to be made.

Please see the points of contact below if they are required:

516 Chadwick House  
Warrington Road  
Birchwood Park  
Warrington  
WA3 6AE  
0333 150 7282  
plant.enquiries@cityfibre.com

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Joe Shawyer  
Production Researcher
John Shrieves
Planning and Design Manager
07912 777675

CityFibre,
53 Chandos Place,
London,
WC2N 4HS

+44 (0)845 293 0774
Web: www.cityfibre.com

Disclaimer

CityFibre Holdings Limited is incorporated in England (No. 07488363) and its registered office is 53 Chandos Place, London WC2N 4HS. This email, together with any attachments, is confidential and for use by the addressee(s) only. If you are not the intended recipient, please notify the sender immediately, delete the message from your system and do not copy, use, distribute or disclose the email, its contents or attachments for any purpose. CityFibre Holdings Ltd accepts no liability for damage caused to a recipient’s system by this email nor for any unauthorised access to or interference with this email.
Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team

Please consider the environment before printing this email.

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For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

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I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Joe Shawyer
Production Researcher
Groundwise Searches Ltd

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Business Address and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU
Company Registration Number 4130795
VAT number 769 0642 02
Tel: 01702 615566 Fax: 01702 460239 Visit our website at: www.groundwise.com

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Dear Sir/Madam,
Thank you for submitting your recent plant enquiry.
Based on the information provided, I can confirm that Energetics does not have any plant within the area(s) specified in your request.
Please be advised that it may take around 10 working days to process enquiries. In the unlikely event that you have been waiting longer than 10 working days, or require further assistance with outstanding enquiries, please call 01925 438052.
Please ensure all plant enquiries are sent to plantenquiries@energetics-uk.com

Regards

Vicky Williams
Plant Enquiries Team
Energetics Design & Build
The White House
Greenalls Avenue
Warrington
Cheshire
WA4 6HL

e:  plantenquiries@energetics-uk.com
t:  01925 438052
w: www.energetics-uk.com

From: Joe Shawyer [mailto:JShawyer@groundwise.com]
Sent: 24 October 2013 16:34
To: Plant Enquiries; osm.enquiries@atkinsglobal.com; highwaysadmin@kcom.com; nrswa@sns.bskyb.com; plantenquiries@mcnicholas.co.uk; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; FPLplantprotection@fulcrum.co.uk; plant.enquiries@cityfibre.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk
Subject: 12583JS - Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF

From: Joe Shawyer [mailto:JShawyer@groundwise.com]
Sent: 24 October 2013 16:34
To: Plant Enquiries; osm.enquiries@atkinsglobal.com; highwaysadmin@kcom.com; nrswa@sns.bskyb.com; plantenquiries@mcnicholas.co.uk; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; FPLplantprotection@fulcrum.co.uk; plant.enquiries@cityfibre.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk
Subject: 12583JS - Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF

Ref: 12583JS
Site: Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF
Grid Reference: 336866,433382 to 337864,432545 (SEE SITE PLAN FOR DETAIL + EXTRA GRID REF)

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

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I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Joe Shawyer
Production Researcher
Groundwise Searches Ltd
Dear Sir or Madam,

Your Ref: 12583JS Plumpton Site off Preston Rd Westby Lancashire
Our Ref: E10-13-4489

With reference to your enquiry regarding the above noted location, I can confirm that LEVEL 3, GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC FIBERNET UK LTD and FIBRESPAN LTD networks **DO NOT** have any apparatus within the immediate proximity of your proposed works.

Instalcom responds to plant enquiries for LEVEL 3, GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC, FIBERNET UK LTD and FIBRESPAN LTD simultaneously and therefore you only need send one copy of a plant enquiry to cover all of these companies. If you would like to query the location further, please email us accordingly and we can arrange an in depth survey, which will be charged at a cost. As we are moving towards a fully electronic database we urge our customers to request plant enquiries by email which will result in a higher level of service, please forward future plant enquiries to plantenquiries@instalcom.co.uk

If you require any further information, please do not hesitate to contact me.

Plant Protection Administrator

Instalcom Limited
Instalcom House,
Manor Way,
Borehamwood,
WD6 1QH
E mail: plantenquiries@instalcom.co.uk
Phone: 020 8731 4600
Fax: 020 8731 4601
www.instalcom.co.uk
To whom it may concern

Thank you for your enquiry regarding the above proposals at the above location

We would advise that we are unaware of any Interoute plant or services in this Location as indicated in your enquiry.

We bring to your attention the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Interoute and its Agents accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.

All responses are only valid for 28 days

Yours faithfully

PLANCAST Plant Enquiry Department

The Old Haybarn
Rosebery Mews, Mentmore
Bedfordshire LU7 0UE

T: 01296 662647
www.plancast.co.uk

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Registered office: 1st Floor, The Old Haybarn, Rosebery Mews, Mentmore LU7 0UE.
Registered in England and Wales with number 4455025 VAT No. 8567 195 80
Ref: 12583JS
Site: Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF
Grid Reference: 336866,433382 to 337864,432545 (SEE SITE PLAN FOR DETAIL + EXTRA GRID REF)

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

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I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Joe Shawyer
Production Researcher
Groundwise Searches Ltd

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Business Address and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU
Company Registration Number 4130795
VAT number 769 0642 02

Tel: 01702615566 Fax: 01702460239 Visit our website at: www.groundwise.com

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With regards to your request for details of existing services in the search area supplied, we can confirm that based on the details provided to us, we have no buried plant or equipment in the identified area.

This is valid for 3 months from the date of receipt of this email. If any further information is required, please call 01482 603479, or email our group email address -

highwaysadmin@kcom.com
UNAFFECTED

Enter the location that you wish to search for (eg Postcode, Town or Street)  

Search

Click on a station to see the details.

<table>
<thead>
<tr>
<th></th>
<th>Single Operator GSM Technology</th>
<th>Single Operator UMTS Technology</th>
<th>Single Operator TETRA Technology</th>
<th>Base stations with more than one operator or more than one technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR4 3PF</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

12583JS – 12/11/2013
You may wish to contact the mobile phone operators directly. Links to their websites are provided below along with specific contact details for enquiries relating to mobile phone masts. If you are enquiring about a particular mast please quote the Operator Site Ref.

<table>
<thead>
<tr>
<th>Operator</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
<th>Web</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airwave</td>
<td>Airwave Solutions Limited Wellington Street Slough Berks SL1 2YP</td>
<td>+44 (0)8000 11 33 99</td>
<td>020 7557 9000</td>
<td><a href="mailto:ServiceDesk.Receptionist@airwavesolutions.co.uk">ServiceDesk.Receptionist@airwavesolutions.co.uk</a></td>
<td><a href="http://www.airwavesolutions.co.uk/">http://www.airwavesolutions.co.uk/</a></td>
</tr>
<tr>
<td>T-Mobile</td>
<td>Hatfield Business Park Hatfield Hertfordshire AL10 9BW</td>
<td>0870 321 6047</td>
<td>01707 319022</td>
<td><a href="mailto:networkinfo@t-mobile.co.uk">networkinfo@t-mobile.co.uk</a></td>
<td><a href="http://www.t-mobile.co.uk">http://www.t-mobile.co.uk</a></td>
</tr>
<tr>
<td>Orange</td>
<td>Orange Personal Communication Services Ltd St James Court Great Park Road Almondsbury Bristol BS12 4QJ</td>
<td>0870 376 3770</td>
<td>0870 376 4770</td>
<td><a href="mailto:Site.Information@everythingeverywhere.com">Site.Information@everythingeverywhere.com</a></td>
<td><a href="http://www.orange.co.uk/">http://www.orange.co.uk/</a></td>
</tr>
<tr>
<td>O2 UK</td>
<td>Telefonica O2 Europe plc Network Consultation Help Desk 1 Brunel Way Slough Berkshire SL1 3XL</td>
<td>01753 564 306</td>
<td>08715 289 235</td>
<td><a href="mailto:networkconsultation@o2.com">networkconsultation@o2.com</a></td>
<td><a href="http://www.o2.com/">http://www.o2.com/</a></td>
</tr>
<tr>
<td>Vodafone</td>
<td>EMF Advisory Unit Vodafone Ltd The Exchange Building 1330 Arlington Business Park Theale RG7 4SA</td>
<td>01635 677706</td>
<td>01635 234858</td>
<td><a href="mailto:emf.advisoryunit@vf.vodafone.co.uk">emf.advisoryunit@vf.vodafone.co.uk</a></td>
<td><a href="http://www.vodafone.co.uk">http://www.vodafone.co.uk</a></td>
</tr>
<tr>
<td>Network Rail</td>
<td>Community Relations Network Rail 40 Molton Rd London NW1 2EE</td>
<td>08457 11 41 41</td>
<td>020 7557 9000</td>
<td><a href="mailto:RailwayCommunicationsSystem@networkrail.co.uk">RailwayCommunicationsSystem@networkrail.co.uk</a></td>
<td><a href="http://www.networkrail.co.uk/">http://www.networkrail.co.uk/</a></td>
</tr>
<tr>
<td>3</td>
<td>3 Hester House Battersea London SW11 4AN</td>
<td>0800 9177354 Or 01628 765000</td>
<td></td>
<td><a href="mailto:DCTO3rdLineTechnicalSupport@three.co.uk">DCTO3rdLineTechnicalSupport@three.co.uk</a></td>
<td><a href="http://www.three.co.uk">www.three.co.uk</a></td>
</tr>
</tbody>
</table>
UNAFFECTED

For Orange UK
Plant Search
support contact
May Gurney IS
Support team:
01603-727399
Watch it!

Safety advice brought to you by
Southern Electric Power Distribution plc and
Scottish Hydro Electric Power Distribution Ltd

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

The Electricity at Work Regulations 1989 impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

Regulation 14 requires that: "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

♦ it is unreasonable in all circumstances for it to be dead; and
♦ it is reasonable in all circumstances for him to be at work on or near it while it is live; and
♦ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from HMSO's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from HMSO Head Offices of the Federation of Civil Engineering Contractors and the National Federation of Building Trades Employers.

Note

In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult Scottish and Southern Energy plc immediately. Tel. 08457 708090 for southern England or 0800 300999 for Scotland.

Additional copies of these "Watch it!" leaflets can be obtained from our Mapping Services office upon request. Tel. 01256 337294, or Fax 01256 337295.

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

Watch it! - Working in the vicinity of underground cables.

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments, surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by Scottish and Southern Energy plc. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major transmission circuits form an extremely important link in Scottish and Southern Energy's network, and damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the do's and don'ts listed below:

✓ do make sure you have plans of the underground cables in the area before any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
✓ do use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. If in doubt, get advice from your supervisor.
✓ do ask for a cable to be made dead if it is buried in concrete.
✓ do watch for signs of cables as work progresses. Note any marker-tape or cable-cover, which may be exposed.
do backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
do notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
do make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
don’t operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
don’t use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. Never throw a fork or sharp instrument into the ground.
don’t dig trial holes over the indicated route of the cable. Excavate alongside instead.
don’t use exposed cables as a convenient step or handhold.
don’t handle or attempt to alter the position of any cable.

**Remember** that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

**Watch it! - Working in the vicinity of overhead lines**

For your own and your workmates' safety, please follow the *do's* and *don'ts* listed below

✓ do carefully note the position of all overhead lines before commencing work.
✓ do co-operate with us during planning and sitework stages.
✓ do follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
✓ do keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
✓ do remember that the raising or slew of a crane or excavator jib may cause danger when operating near an overhead line.
✓ do avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
✓ do warn others to keep well clear.

✓ don’t drive a high vehicle below an overhead line when an alternative route is available.
✓ don’t raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
✓ don’t steady any suspended load until you are satisfied that there is no danger from overhead lines.
✓ don’t handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
✓ don’t transport long objects beneath overhead lines, unless they are carried in a horizontal position.
✓ don’t approach or touch any broken or fallen overhead lines.

**Always remember that:**

- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.
The locations below are NOT AFFECTED by TATA/KPN apparatus.

12583JS Groundwise Plumpton Site off Preston New road Westby Lancashire PR4 3PF

Please note:
McNicholas, on behalf of our client, accept no liability for claims arising from inaccuracies, omissions or errors contained within your plant enquiry request.

If you require further information please do not hesitate to contact us.

Kind Regards,

McNicholas Plant Enquiry Team

Telephone - 0208 236 6592/6614
Facsimile - 0208 236 6600

Website - www.mcnicholas.co.uk

Our team. Your solution.
UNAFFECTED
Joe Shawyer

From: UK OSP-Team [osp-team@uk.verizon.com]
Sent: 25 October 2013 10:48
To: Joe Shawyer
Subject: RE: 12583JS - Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF

Dear Sirs

Verizon Business is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon Business (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to call.

Yours faithfully

Chris Pile

Plant Protection Officer E.mail osp-team@uk.verizonbusiness.com

---

From: Joe Shawyer [mailto:JShawyer@groundwise.com]
Sent: 24 October 2013 16:34
To: plantenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; highwaysadmin@kcom.com; nrswa@sns.bskyb.com; plantenquiries@mcnicholas.co.uk; plantenquiries@instalcom.co.uk; UK OSP-Team; interoute.enquiries@plancast.co.uk; telentelaplantenquiries@telent.com; FPLplantprotection@fulcrum.co.uk; plant.enquiries@cityfibre.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk
Subject: 12583JS - Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF

Ref: 12583JS
Site: Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF
Grid Reference: 336866,433382 to 337864,432545 (SEE SITE PLAN FOR DETAIL & EXTRA GRID REF)

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.
I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Joe Shawyer
Production Researcher
Groundwise Searches Ltd

Before printing, think about the environment

Business Address and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU
Company Registration Number 4130795
VAT number 769 0642 02
Tel: 01702615566 Fax: 01702460239 Visit our website at: www.groundwise.com

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Verizon UK Limited - registered in England & Wales - registered number 2776038 - registered office at Reading International Business Park, Basingstoke Road, Reading, Berkshire, UK RG2 6DA - VAT number 823 8170 33
Attention: Joe Shawyer - Groundwise Searches Ltd

Dear Sir/Madam,

RE: Plumpton site, off Preston New Road, Westby, Lancashire, PR4 3PF

Thank you for your enquiry.

Please be advised that BSkyB Telecommunications Services Ltd will not be affected by these works.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us.

If you would like to submit your plant enquiries electronically, please send them to nrswa@bskyb.com

Please be advised that our fax number has changed to 0207 032 3252.

Regards

NRSWA Department
Network Infrastructure and Planning
BSkyB Telecommunications Services Ltd
70 Buckingham Avenue
SLOUGH
SL1 4PN

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F +44 (0) 207 032 3252
E nrswa@bskyb.com

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