

Planning Policy Team,
Brentwood Borough Council,
Town Hall, Brentwood,
Essex,
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Robert Deanwood
Consultant Town Planner

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Sent by email to:
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8 March 2016

Dear Sir / Madam

Brentwood Borough Council: Local Plan Draft Consultation SUBMISSION ON BEHALF OF NATIONAL GRID

National Grid has appointed Amec Foster Wheeler to review and respond to development plan consultations on its behalf. We are instructed by our client to submit the following representation with regard to the current consultation on the above document.

National Grid owns and operates the high voltage electricity transmission system in England and Wales and operates the Scottish high voltage transmission system. National Grid also owns and operates the gas transmission system. In the UK, gas leaves the transmission system and enters the distribution networks at high pressure. It is then transported through a number of reducing pressure tiers until it is finally delivered to our customers. National Grid own four of the UK's gas distribution networks and transport gas to 11 million homes, schools and businesses through 81,000 miles of gas pipelines within North West, East of England, West Midlands and North London.

To help ensure the continued safe operation of existing sites and equipment and to facilitate future infrastructure investment, National Grid wishes to be involved in the preparation, alteration and review of plans and strategies which may affect our assets.

National Grid infrastructure within Brentwood Borough Council Electricity Transmission

National Grid has one high voltage overhead line (listed below) within Brentwood Borough Council's administrative area. This forms an essential part of the electricity transmission network in England and Wales.

Line Ref.	Description
ZB Route	275kV two circuit route from Waltham Cross substation in Epping Forest to Warley substation in Havering.

National Grid has provided information in relation to electricity transmission assets via the following internet link:

<http://www2.nationalgrid.com/uk/services/land-and-development/planning-authority/shape-files/>

Gas Transmission

National Grid has three high pressure gas transmission pipelines within the administrative area of Brentwood Borough Council:

Pipeline	Feeder Detail
FM18	Stapleford Tawney to Tilbury Thames North
FM05	Braintree to Horndon
FM05	Roxwell to Abridge

National Grid has provided information in relation to gas transmission assets via the following internet link:

<http://www2.nationalgrid.com/uk/services/land-and-development/planning-authority/shape-files/>

National Grid requests that any High Pressure Major Accident Hazard Pipelines (MAHP) are taken into account when site options are developed in more detail. These pipelines form an essential part of the national gas transmission system and National Grid's approach is always to seek to retain our existing transmission pipelines in situ.

Gas Distribution

National Grid has a high number of gas distribution apparatus within the administrative area of Brentwood Borough Council. This includes:

- Low Pressure (LP) and Medium Pressure (MP) (below 2 bar) Gas Pipes and associated equipment
- Six High Pressure (HP) (above 2 bar) Gas Pipelines and associated equipment as listed below:

Pipe Pressure	Description
HP	2438 Hainault to Ashingdon
HP	0001 Doddinghurst Branch 4"
HP	2406 Shoulder Hall to Southend Arterial 18"
HP	051a Inlet to Mountnessing Stn 314/315 8"
HP	2428 Mardyke Stn 58 to Stock Stn 274 12"
HP	2405 Horndon to Abridge 18"

The first point of contact for all works within the vicinity of gas distribution assets is Plant Protection (plantprotection@nationalgrid.com).

Please note that Gas pipeline diversions may take up to three years, please bear this in mind when engaging with National Grid.

National Grid may have a Deed of Grant Easement for each asset which prevents the erection of permanent/temporary buildings, or structures, changes to existing ground levels, storage of materials etc. Additionally written permission will be required before any works commence within the National Grid easement strip, and a deed of consent is required for any crossing of the easement. In the first instance please consider checking with the Land Registry for the development area. If further information is required in relation to an easement please contact Ann Holdsworth, Development Liaison Officer, ann.holdsworth@nationalgrid.com

Electricity Distribution

UK Power Networks owns and operates the local electricity distribution network in Brentwood Borough Council. Contact details can be found at www.energynetworks.org.uk

SPECIFIC COMMENTS

Gas Transmission

The following sites have been identified as being crossed by or within close proximity to High Pressure Gas transmission apparatus:

- 032 Land East of Nags Head Lane

Our underground pipelines are protected by permanent agreements with landowners or have been laid in the public highway under our licence. These grant us legal rights that enable us to achieve efficient and reliable operation, maintenance, repair and refurbishment of our gas transmission network. Hence we require that no permanent structures are built over or under pipelines or within the zone specified in the agreements, materials or soil are not stacked or stored on top of the pipeline route and that unrestricted and safe access to any of our pipeline(s) must be maintained at all times.

Local authorities have a statutory duty to consider applications for development in the vicinity of high pressure (above 7 bar) pipelines and to advise the developer on whether the development should be allowed on safety grounds on rules provided by HSE. This advice is provided by the HSE Planning Advice for Development near to Hazardous Installations (PADHI) process. The relevant HSE guidance can be accessed via the following link: <http://www.hse.gov.uk/landuseplanning/padhi.pdf>

In order to ensure that National Grid's pipelines are protected from uncontrolled development in the vicinity of the pipeline please also read the following guidance prepared by National Grid:

- Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties
http://www.nationalgrid.com/NR/ronlyres/50ACAC0A-ED26-41A7-91FA-83163A98270F/23790/TSPSSW22_J537_Rev0807.pdf
- Gas Transmission Underground Pipelines – Guidance
http://www.nationalgrid.com/NR/ronlyres/446009BF-ABB5-42E1-B9FE-44E90D577DD5/18653/APTGasGuidance_2_.pdf

Should these sites be taken forward as development sites in the future, the developers should be made aware of the above issues.

Appendices - National Grid Assets

Please find attached in:

- Appendix 1 maps of the sites referenced above in relation to the affected National Grid Transmission assets outlined above.
- Appendix 2 provides maps of the sites referenced above in relation to the affected National Grid Gas Distribution (Intermediate Pressure /High Pressure) assets outlined above.

Further Advice

National Grid is happy to provide advice and guidance to the Council concerning our networks. If we can be of any assistance to you in providing informal comments in confidence during your policy development, please do not hesitate to contact us. In addition the following publications are available from the National Grid website or by contacting us at the address overleaf:

- National Grid's commitments when undertaking works in the UK - our stakeholder, community and amenity policy;

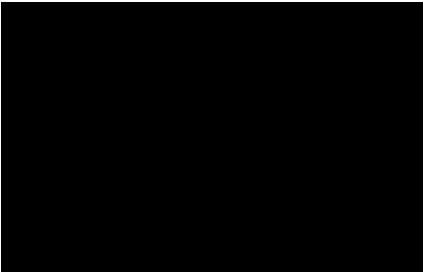
- Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties; and
- A sense of place - design guidelines for development near high voltage overhead lines.
- T/SP/SSW22 – Specification for safe working in the vicinity of National Grid high pressure gas pipelines and associated installations – requirements for third parties.

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33968>

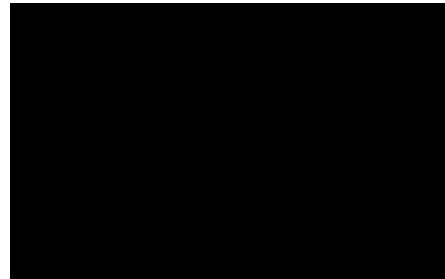
- IGE/SR/18 – Safe working practices to ensure the integrity of gas pipelines and associated installations.
- HS(G)47 – Avoiding Danger from Underground Services.

Please remember to consult National Grid on any Development Plan Document (DPD) or site-specific proposals that could affect our infrastructure. We would be grateful if you could add our details shown below to your consultation database:

Robert Deanwood
Consultant Town Planner



Ann Holdsworth
Development Liaison Officer, National Grid



I hope the above information is useful. If you require any further information please do not hesitate to contact me.

Yours faithfully

[via email]

Robert Deanwood
Consultant Town Planner

cc. Ann Holdsworth, National Grid

APPENDIX 1: NATIONAL GRID TRANSMISSION ASSETS AFFECTED

APPENDIX 2: NATIONAL GRID GAS DISTRIBUTION INTERMEDIATE / HIGH PRESSURE ASSETS AFFECTED