National Grid Application

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Non Domestic or Non Standard Band 2 or 3

Application Form

Dear Customer,

Thank you for enquiring about arranging a new gas supply or alteration. The work will fall into one of the following categories: Non Domestic, or Non Standard Band 2 or 3 and as a result National Grid requires a Quotation Charge to be paid prior to a quotation being produced and sent to you. The following information has been designed to help you identify which category your work fits into and the associated Quotation Charge band.

Enclosed with this letter is the relevant Application Pack containing the Quotation Charge Information Sheet, Quotation Charge Acceptance form, Payment Form and accompanying Guidance Notes.

Please note a plan is required for all new connection and alteration applications and should contain the below information: -

- The scale
- The required termination point for the supply
- The existing termination point (alterations only)
- For flats where the supply will terminate above 3m and elevation drawing is required.
- Reference to existing geography
- Plot or building number

If this plan does not confirm the location of the site an additional plan should also be provided.

It is acknowledged that it is not always possible to provide a scale drawing for existing domestic properties, in this instance a sketch would be accepted.

Failure to provide a plan or any of the information that we have indicated as "minimum information" could result in delays to your application.

Before signing the Quotation Charge Acceptance Form included within this pack, please carefully read the Quotation Charge Terms and Conditions.

Important Information

National Grid will not arrange for the provision of a new or a replacement gas meter. You must contact your chosen Gas Supplier or Meter Asset Manager (MAM) to organise a meter.

At any time whilst processing your application National Grid may deem that your request meets our criteria for a Sufficiently Complex job. This means that we will be unable to provide a firm quotation in our usual time scales. If this occurs, we will contact you to discuss a budget indication for the works and also arrange billing and payment of any additional charge required before we can complete the design works to provide the firm quotation.

The reasons for applications being defined as Sufficiently Complex are defined in National Grid's Gas Distribution Connections Charging Methodology[2].

If you require any assistance or advise, please contact us on **0870 903 9999** (charged at local rate if called from a landline, mobiles may differ) and we will be happy to help.

Please return your completed application form and plans to the address below:

Sales Order Processing
National Grid
PO Box 5516
Wolverhampton
WV1 9NZ

Please enclose:

- A scale site plan including meter positions and elevation plans if applicable.
- A location plan (unfortunately we are unable to accept faxed drawings).
- Quotation acceptance and payment information (only applicable if you have not already paid for your quotation request online)

We look forward to being of service.

Customer Ordered Sales

Securing our energy supply for future generations.

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Non standard connection and alteration application pack quotation charge information sheet

The tables below define the criteria for each Quotation Charge Band for both New Connections and Service Alterations.

Using the below table, please identify which Quotation Charge applies to the work that is required.

Please complete the attached Quotation Charge Acceptance Form page 3 and credit/debit card payment form page 4 (if paying by credit/debit card) if you have not already accepted and paid the Quotation Charge.

Non Domestic or Non Standard New Connection Band 2 and 3 Criteria	Band	Quotation Charge (Excl. VAT)**
• Meter location is more than 3m above ground level or above first floor; • Property is more than 23 metres across public land from a National Grid relevant mains gas pipe; • Pipes to be laid on private land exceeds 40 metres; • Meter location is more than 3m above ground level or above first floor; • Any non-domestic new connection where the load is greater than 696KW/h but does not exceed 1733KW/h; • Domestic new connection above standard distances* where the load does not exceed 1733KW/h • Single or multiple connections;; • Where connection requires pipework exceeding standard distances;	2	£400
As per band 2 but where load exceeds 1733KW/h	3	£553

* Standard distances are where the pipe to be laid is less than 23 metres on public land and less than 40 metres on private.
** Excluding VAT. Effective from 1 April 2009.

Non Domestic or Non Standard Service Alteration Band 2 and 3 Criteria	Band	Quotation Charge (Excl. VAT)**
• Any Domestic property requiring an alteration where the load is greater than 696KW/h but does not exceed 1733KW/h; • Any Domestic property where the alteration distance is over 20m between new and old meter position requiring more than standard distance * or 20m of new additional pipe work; • Any Non Domestic property requiring an alteration where the load does not exceed 1733KW/h; • Meter location is more than 3m above ground level or above first floor;	2	£400
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The Quotation charge includes:

- An operative visiting the site location with or without contact with the nominated site contact as is deemed necessary by National Grid.
- The calculation of the pipe size required for the given load and service length.
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- The quotation will be provided in line with the timescales published in National Grid's Connections Business Rules[1]. This is likely to be either 11 or 21 working days depending on the complexity of the application and the standard of service that applies.
- The cost of the specific Network Analysis (if required)

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- National Grid will provide a quotation within the time scales set out in National Grid's Connections Business Rules.
- In the event that National Grid does not provide a quotation within the time scales specified above or that the quotation is inaccurate then any liability to the Customer arising from the delay or inaccuracy as the case may be will be capped at either the level of compensation provided for in any statutory rules applying from time to time or the amount of the Quotation Charge paid by the customer, whichever is the lesser.
- No provision of this agreement shall or may be construed as creating any rights enforceable by a third party (whether under the Contracts Act or otherwise) and all third party rights as may be implied by law (whether under the Contracts Act or otherwise) are hereby excluded to the fullest extent permitted by law from any Contract.
- This agreement is governed by the laws of England and subject to the exclusive jurisdiction of the English Courts where the Works are carried out in England or Wales, and the exclusive jurisdiction of the Scottish Courts where the Works are carried out in Scotland.

QUOTATION CHARGE ACCEPTANCE FORM

If you have already accepted and paid for your quotation charge online, please go to page 5:

If you have not already raised your Quotation Charge order, please complete the following.

I/We hereby accept your Quotation Charge and confirm that we agree to the terms and conditions that apply to the Quotation Charge. ☑

Signed:

Company Name *(if applicable)*

Job Title *(if applicable)*

Print Name

Date *(DD/MM/YYYY)*

Please indicate which quotation charge band your work falls into:

Price Band (Including 20% VAT)

☐ 2 £480.00

☑ 3 £663.60

Please select your method of payment:

☐ Cheque/ Postal Order *(made payable to National Grid plc)*

☐ Credit/Debit card *(Complete payment form below)*

☐ BACS or CHAPS *(Please provide remittance reference below)*

Remittance Reference (if paid by BACS or CHAPS

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Payment Form

Please complete if you wish to pay by debit or credit card and return with your application form.

If you are paying by card, please post this form along with your Quotation Charge Acceptance form. Alternatively, you can pay by phone on **0870 903 9999** once your signed acceptance form has been received. We are unable to process any payment card details received via fax or email and they will be deleted without being processed holding up your work request. This is due to our compliance with industry recognized standards over the protection of your credit card information.

Please ensure all the information is correct or National Grid plc will be unable to process the job or the payment

Please complete the following

Cardholder name: *(as it appears on your card)*

_____

Cardholder's address
(if different from requester's address)

_____

_____

Type of payment - National Grid Gas plc can now accept Credit / Debit Card payments with the exception of American Express and Diners Club cards.

- ☐ **Visa**
- ☐ **Master Card**
- ☐ **Delta Card**
- ☐ **Maestro Card**

Card number

Card expiry date

Amount being paid: *(including VAT)*

.

Cardholder's signature:

_____

Office use only:

Sales order number: _____
Invoice number: _____
Authority number: _____

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Application Form

For Non Domestic or Non Standard Band 2 or 3 Works

Please note:

- Please complete this application in full including all minimum information to avoid delays in providing your quotation.
- The customer must request the gas meter from their chosen Gas Supplier or Meter Asset Manger (MAM) who may make a charge for arranging the meter installation.
- National Grid Gas will not lay service pipe inside the fabric of the building including under floors or walls.
- You must obtain the necessary consent if the new service pipe or the meter box position encroaches on third party or shared ownership land.
- Please contact our team on 0870 903 9999 if you require assistance completing this form. Please be aware you may need to consult with a Gas Safe Registered engineer for some area if you are unsure of the answer.

Order reference for Quotation Charge (if Quotation Charge is already raised)

Have you previously submitted an application for this site before?

☐ Yes ☑ No

If yes, please supply Order Reference number (s)

Site Address (where work is required)
Please also complete page 7

Contact Name
Organisation RICHMOND UPON THAMES COLLEGE
House Number CAMPUS
House Name *(if applicable)*
Site Name *(if applicable)*
Street name

Town/ City TWICKENHAM, LONDON
Postcode TW2 7SJ
Phone *(Day)*
Mobile *(if applicable)*
Email Address
Fax

Correspondence Address (if different to site address)

Contact Name KATHRYN DRYDEN
Organisation ATKINS
House Number
House Name *(if applicable)* WOODCOTE GROVE
Street name ASHLEY ROAD

Town/ City EPSOM
Postcode KT18 5BW
Phone *(Day)* [redacted]
Mobile *(if applicable)*
Email Address [redacted]
Fax

Please note, the payment can only be accepted from the requester of the quote *(i.e. the name in the Customer Correspondence Details)*

Are you a limited company? ☑ Yes ☐ No
Is the site contact the Owner or Occupier of the property? ☐ Yes ☑ No

Is the application for (tick all that apply)

☑ New Property ☐ New Supply
☐ Existing Property ☐ Alteration
☑ Domestic Property ☐ An Increase in Load
☑ Commercial Property ☑ Additional Supply

Property Details

How many properties are you applying for work for?

☐ One Property
☑ More Than One Property, please complete page 8

Are you?

☐ The owner of the property *(not including housing associations, church groups, businesses etc)*
☐ The occupier or tenant of the property *(ensure you have the owners permission)*
☑ A business or other organisation arranging the work *(including housing associations, builders etc, ensure you have the owners permission)*

What is your property type?

☐ Semi detached
☐ Detached
☐ Terraced
☐ Flat *(If Flat answer A & B)*
☐ Maisonette *(If maisonette answer A & B)*
A) Which floor is the property on?
B) Which floor will the meter be on?
☐ Bungalow
☐ Listed building
☐ Caravan park
☐ House boat
☐ Independent annex
☐ Conversion to domestic premises
☑ Residential Home
☐ Industrial Premise
☑ Commercial Premise *(including churches etc)*

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Is your property mainly used for?
☐ Domestic Use
☑ Non Domestic Use

New Service Pipe Details

Please confirm the meter size(s) you will be installing

☐ U6 *(64KW/h max)*
☐ U16 *(173KW/h max)*
☑ U25 *(270KW/h max)*
☐ U40 *(433KW/h max)*
☐ U65 *(660KW/h max)*
☑ U100 *(1072KW/h Max)*
☑ U160 *(1473KW/h max)*
☐ Other *(please state below)*

2 x U100
1 x U160
1 x U25

Important:, in some cases we may not be able to provide a quotation to an internal position as per Gas Safety Regulations (GSIUR). This must be complied with.

Where would you like the meter to be fitted? *(Please indicate on your plan)*
☑ Inside ☐ Outside

If outside, do you require National Grid to provide and install the meter box?
☐ Yes ☐ No *(If customer is providing or meter will be inside property)*

If yes, which meter box do you wish National Grid to install and how many?

☐ Surface Mounted wall box *(U6 meter size only)*
☐ Semi Concealed in Ground Box *(U6 meter size only)*
☐ Wall Mounted Protruding Kiosk *(U16 or U25 meter size only)*
☐ Free Standing Kiosk *(U16 meter size or above)*

If you require a Free Standing Kiosk, do you wish National Grid to provide the base? ☐ Yes ☑ No

Important: National Grid do not provide or install Built In/recessed meter boxes. This type of box must be provided and installed by the customer

If you require a meter kiosk for a gas meter larger than U65 or a specific kiosk or meter box, please supply the make and model of kiosk required or meter box dimensions (length, width & height (in mm))

What is the service length in whole metres?
(Across your private land only)

600 Metres APPROX -(REFER TO SK-001)

Who will carry out the excavation across the private land for the pipe?
☐ National Grid
☑ Customer will Arrange 'Other' Option

Is the Gas on Date Known?
☐ Yes ☑ No

If Yes please confirm the date?

/ /

Is the development to be phased? *(If yes please confirm the phasing details)* - REFER TO SK-002
☑ Yes ☐ No

Are there any further developments / additional loads anticipated on the site? *(If yes please indicate this a "Future" on page 8)*
☑ Yes ☐ No

Is the property timber framed?
☐ Yes ☑ No

Will the gas supply cross a third parties land?
☐ Yes ☑ No

Is there an existing live gas supply at the property?
☑ Yes ☐ No

If yes, please provide Meter Point Reference Number
(If more than 1, please list in Additional Information)

1473902

Does the supply follow a normal space heating pattern?
☑ Yes ☐ No
(If No, please complete table C1 on page 8)

Will a compressor, booster, CHP be fitted?
☐ Yes ☐ No *(If yes, please complete tables C1 and C2 on page 8* UNKNOWN AT THIS STAGE

Is the pressure at the inlet to supply the meter installation required to be >21 mbar?
☐ Yes ☑ No

Load type i.e.: On-Off, Modulating, process etc

MODULATING

Additional Information

To help us progress your application, please provide any additional information including any potential site restrictions, anomalies, construction period restraints or enhanced facilities.

ADDITIONAL METER POINTS:
1474006, 1474107, 1473801

REFER TO THE FOLLOWING ATTACHMENTS:
TN-001
SK-001
SK-002
SK-003.

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Important: You **must provide** this information as it is required in order for us to provide an accurate design to the anticipated gas usage. Please indicate you Gas Load information in the table below. If you are unsure of any details, a Gas Safe Registered Engineer will be able to help you with your calculations. For assistance, please visit: www.gassaferegister.co.uk

Gas Load information

Property Type	Number Of Each Type	Hourly Gas Load (KW/h)	Annual Gas Load (KW/Hh)	For Alterations please confirm the existing load
e.g. Terraced House	*15*	*25*	*1500*	*1200*
COLLEGE (PHASE 3	1	1720	1,720,000	
COLLEGE (PHASE 1)	1	740	740,000	
SCHOOL	1	1060	1,060,000	
OFFICE	1	240	240,000	
RESIDENTIAL	—	2670	2,670,000	
		Total: 6423	Total: 6,430,000	Total:

Attachment checklist

Please make sure that you have included the following upon submission of your application form:

☑ A plan clearly showing the preferred meter positions and preferred route (if the application is for an alteration please indicate the existing meter position as well as the new). REFER TO SK-001

☑ A scaled plan that clearly shows the outline of the site boundary and the surrounding geography. REFER TO SK003

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Additional Information for Non-Typical Demands

Please note: You will only need to provide information on this page if your supply does not follow a normal space heating pattern or you will be using a booster, compressor or CHP *(usually only for commercial or industrial properties)*. An engineer from the Gas Safe Register can provide you with assistance completing tables C1 and C2. Please visit www.gassaferegister.co.uk for assistance.

Table C1 - Where a non - typical demand profile is identified

To identify the proposed profile of gas use, it is necessary to understand the time(s) of day and year at which the gas demand is required and if the demand varies from this level at the other key times / conditions of the day and year. –

Non-Typical Demand?	Please indicate times and level of demand			
Start Oct – end May	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h
Start Jun – end Aug	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h
Other periods of year	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h

Table C2 - Where a compressor or booster is to be installed

Peak instantaneous demand to be compressed and the pressure required	KW/h		Mbar/bar
Compressor Type - Reciprocating / Fan / Screw / Booster / Other *(please state)*			
Number of Compressors / Boosters and the Peak Instantaneous Demand For Each Excluding Standby	Number	Flow	**Plant 1** m3/HR ..... KW/h **Plant 2** m3/HR ..... KW/h **Plant 3** m3/HR ..... KW/h
Time taken to achieve full load from start up			seconds
Profile provided for no linear start up profile			☐ Yes ☐ No ☐ N/a
Number of Burners to be installed?			Quantity
Will burners be in parallel?			☐ Yes ☐ No ☐ N/A

Typical Burner Stages	Start-up pre-purge	Pilot fire	Low Fire	High Fire
Flow as % of burners PID – burner 1				
Minimum time for each stage(s) – burner 1				
Flow as % of burners PID – burner 1				
Minimum time for each stage(s) – burner 2				
Flow as % of burners PID – burner 2				
Minimum time for each stage(s) – burner 3				

Technical note- TN-001

Project:	Richmond upon Thames Campus	**To:**	Kathryn Dryden
Subject:	New Gas Supply	**From:**	National Grid
Date:	25 Mar 2015	**cc:**	

Introduction

A new development at Richmond upon Thames college campus is being designed and is in the early feasibility stages. A quote is required for a new gas supply to the site for costing purposes and so an application form for non-domestic or non-standard band 2 or 3 works has been completed. The purpose of this technical note is to clarify the figures and assumptions made in the application form.

The proposed project is located on the site of Richmond-upon-Thames College, in Twickenham, in the London Borough of Richmond-upon-Thames. The site currently comprises of the existing Richmond upon Thames College, and recreational land.

The proposed development consists of a new campus for education and enterprise comprising a college, a school (including a 5FE secondary school, SEN schools; the Clarendon School and Newhouse School), a technical hub (for the Haymarket group including photographic studios and supporting spaces), and sports shared by the school and college, and accessible to the local community. Land is also being sold to residential units, however details of this are unknown at this stage. The project will be phased as detailed in attached sketch SK-002.

As the project is currently in feasibility stage, the point of connection is unknown and the energy strategy is currently undefined. It is unknown at this stage if CHP will be adopted, however it is a possibility.

Attachments

The following sketches have been included with this application:

SK-001: Masterplan illustrative layout with the proposed service route markets out in order to help estimate the total service length.

SK-002: Phasing details at their current state to aid with the application. These details will be developed as the design progresses.

SK-003: A layout drawing to scale detailing the masterplan of the Richmond education and enterprise campus.

Calculations

A peak gas load of the whole site was estimated based on BSRIA rules of thumb, CIBSE guide G and predicted usage profiles. The following table details the total areas for the buildings, the estimated peak gas loads and the meters sizes as detailed in the application form.

The college is split up into two phases as detailed in SK-002. In phase 3 of the development, the main college building will be constructed and in phase 6, the STEM and sports building part of the college will be constructed. The residential buildings do not require a meter as this is not owned by the site, however should be accounted for in the total peak gas load.

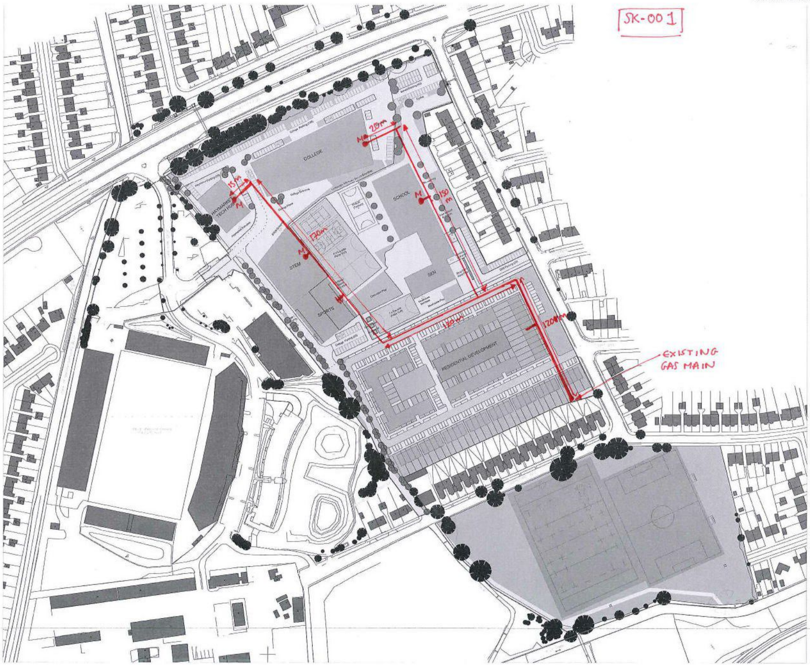
Technical note- TN-001

Building	Total area (m2)	Estimate peak gas load (kW)	Meter size
College (phase 3)	14000	1720	U160
College (phase 6)	6000	740	U100
School	8765	1060	U100
Haymarket (office)	1908	240	U25
Residential	11732	2670	N/A
		6423	

The hourly gas load is assumed to be the peak gas load as shown in the table above. The annual gas load is assumed to be 1000 x hourly gas load based on an estimate rule of thumb.

DO NOT SCALE

SK-001



M PREFERRED METER POSITIONS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
2	3/2015	HoK residential layout updated on Masterplan	KD	CW	CW
1					

Drawing Status: DRAFT | Suitability: S0

ATKINS

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London
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Fax: +44 (0)20 7121 2111
www.atkinsglobal.com

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Client

Project Title: RICHMOND EDUCTAION AND ENTERPRISE CAMPUS

Drawing Title: Masterplan Illustrative Layout

Scale	Designed	Drawn	Checked	Authorised
1:1000	KD	SR	KD	CW
Original Size: A1	Date: 18/02/15	Date: 18/02/15	Date: 18/02/15	Date: 18/02/15

Drawing Number: 5137894-ATK-ZZ-DR-A-9200 | Revision: 02

Kathryn Dryden
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National Grid Application

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- In the event that National Grid does not provide a quotation within the time scales specified above or that the quotation is inaccurate then any liability to the Customer arising from the delay or inaccuracy as the case may be will be capped at either the level of compensation provided for in any statutory rules applying from time to time or the amount of the Quotation Charge paid by the customer, whichever is the lesser.
- No provision of this agreement shall or may be construed as creating any rights enforceable by a third party (whether under the Contracts Act or otherwise) and all third party rights as may be implied by law (whether under the Contracts Act or otherwise) are hereby excluded to the fullest extent permitted by law from any Contract.
- This agreement is governed by the laws of England and subject to the exclusive jurisdiction of the English Courts where the Works are carried out in England or Wales, and the exclusive jurisdiction of the Scottish Courts where the Works are carried out in Scotland.

QUOTATION CHARGE ACCEPTANCE FORM

If you have already accepted and paid for your quotation charge online, please go to page 5:

If you have not already raised your Quotation Charge order, please complete the following.

I/We hereby accept your Quotation Charge and confirm that we agree to the terms and conditions that apply to the Quotation Charge. ☑

Signed: _____

Company Name *(if applicable)* _____

Job Title *(if applicable)* _____

Print Name _____

Date *(DD/MM/YYYY)* _____

Please indicate which quotation charge band your work falls into:

Price Band (Including 20% VAT)

☐ 2 £480.00

☑ 3 £663.60

Please select your method of payment:

☐ Cheque/ Postal Order *(made payable to National Grid plc)*

☐ Credit/Debit card *(Complete payment form below)*

☐ BACS or CHAPS *(Please provide remittance reference below)*

Remittance Reference (if paid by BACS or CHAPS

_____

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Payment Form

Please complete if you wish to pay by debit or credit card and return with your application form.

If you are paying by card, please post this form along with your Quotation Charge Acceptance form. Alternatively, you can pay by phone on **0870 903 9999** once your signed acceptance form has been received. We are unable to process any payment card details received via fax or email and they will be deleted without being processed holding up your work request. This is due to our compliance with industry recognized standards over the protection of your credit card information.

Please ensure all the information is correct or National Grid plc will be unable to process the job or the payment

Please complete the following

Cardholder name: *(as it appears on your card)*

_____

Cardholder's address
(if different from requester's address)

_____

_____

Type of payment - National Grid Gas plc can now accept Credit / Debit Card payments with the exception of American Express and Diners Club cards.

- ☐ **Visa**
- ☐ **Master Card**
- ☐ **Delta Card**
- ☐ **Maestro Card**

Card number

Card expiry date

Amount being paid: *(including VAT)*

.

Cardholder's signature:

_____

Office use only:

Sales order number: _____
Invoice number: _____
Authority number: _____

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Application Form

For Non Domestic or Non Standard Band 2 or 3 Works

Please note:

- Please complete this application in full including all minimum information to avoid delays in providing your quotation.
- The customer must request the gas meter from their chosen Gas Supplier or Meter Asset Manger (MAM) who may make a charge for arranging the meter installation.
- National Grid Gas will not lay service pipe inside the fabric of the building including under floors or walls.
- You must obtain the necessary consent if the new service pipe or the meter box position encroaches on third party or shared ownership land.
- Please contact our team on 0870 903 9999 if you require assistance completing this form. Please be aware you may need to consult with a Gas Safe Registered engineer for some area if you are unsure of the answer.

Order reference for Quotation Charge (if Quotation Charge is already raised)

Have you previously submitted an application for this site before?

☐ Yes ☑ No

If yes, please supply Order Reference number (s)

Site Address (where work is required) **Please also complete page 7**

Contact Name
Organisation RICHMOND UPON THAMES COLLEGE
House Number CAMPUS
House Name *(if applicable)*
Site Name *(if applicable)*
Street name
Town/ City TWICKENHAM, LONDON
Postcode TW2 7SJ
Phone *(Day)*
Mobile *(if applicable)*
Email Address
Fax

Correspondence Address (if different to site address)

Contact Name KATHRYN DRYDEN
Organisation ATKINS
House Number
House Name *(if applicable)* WOODCOTE GROVE
Street name ASHLEY ROAD
Town/ City EPSOM
Postcode KT18 5BW
Phone *(Day)* [redacted]
Mobile *(if applicable)*
Email Address [redacted]
Fax

Please note, the payment can only be accepted from the requester of the quote *(i.e. the name in the Customer Correspondence Details)*

Are you a limited company? ☑ Yes ☐ No
Is the site contact the Owner or Occupier of the property? ☐ Yes ☑ No

Is the application for (tick all that apply)

☑ New Property ☐ New Supply
☐ Existing Property ☐ Alteration
☑ Domestic Property ☐ An Increase in Load
☑ Commercial Property ☑ Additional Supply

Property Details

How many properties are you applying for work for?

☐ One Property
☑ More Than One Property, please complete page 8

Are you?

☐ The owner of the property *(not including housing associations, church groups, businesses etc)*
☐ The occupier or tenant of the property *(ensure you have the owners permission)*
☑ A business or other organisation arranging the work *(including housing associations, builders etc, ensure you have the owners permission)*

What is your property type?

☐ Semi detached
☐ Detached
☐ Terraced
☐ Flat *(If Flat answer A & B)*
☐ Maisonette *(If maisonette answer A & B)*
A) Which floor is the property on?
B) Which floor will the meter be on?
☐ Bungalow
☐ Listed building
☐ Caravan park
☐ House boat
☐ Independent annex
☐ Conversion to domestic premises
☑ Residential Home
☐ Industrial Premise
☑ Commercial Premise *(including churches etc)*

Is your property mainly used for?
☐ Domestic Use
☑ Non Domestic Use

New Service Pipe Details

Please confirm the meter size(s) you will be installing

☐ U6 *(64KW/h max)*
☐ U16 *(173KW/h max)*
☑ U25 *(270KW/h max)*
☐ U40 *(433KW/h max)*
☐ U65 *(660KW/h max)*
☑ U100 *(1072KW/h Max)*
☑ U160 *(1473KW/h max)*
☐ Other *(please state below)*

2 x U100
1 x U160
1 x U25

Important:, in some cases we may not be able to provide a quotation to an internal position as per Gas Safety Regulations (GSIUR). This must be complied with.

Where would you like the meter to be fitted? *(Please indicate on your plan)*
☑ Inside ☐ Outside

If outside, do you require National Grid to provide and install the meter box?
☐ Yes ☐ No *(if customer is providing or meter will be inside property)*

If yes, which meter box do you wish National Grid to install and how many?

☐ Surface Mounted wall box *(U6 meter size only)*
☐ Semi Concealed in Ground Box *(U6 meter size only)*
☐ Wall Mounted Protruding Kiosk *(U16 or U25 meter size only)*
☐ Free Standing Kiosk *(U16 meter size or above)*

If you require a Free Standing Kiosk, do you wish National Grid to provide the base? ☐ Yes ☑ No

Important: National Grid do not provide or install Built In/recessed meter boxes. This type of box must be provided and installed by the customer

If you require a meter kiosk for a gas meter larger than U65 or a specific kiosk or meter box, please supply the make and model of kiosk required or meter box dimensions (length, width & height (in mm))

What is the service length in whole metres?
(Across your private land only)

600 Metres APPROX -(REFER TO SK-001)

Who will carry out the excavation across the private land for the pipe?
☐ National Grid
☑ Customer will Arrange 'Other' Option

Is the Gas on Date Known?
☐ Yes ☑ No
If Yes please confirm the date?
/ /

Is the development to be phased? *(If yes please confirm the phasing details)* - REFER TO SK-002
☑ Yes ☐ No

Are there any further developments / additional loads anticipated on the site? *(If yes please indicate this a "Future" on page 8)*
☑ Yes ☐ No

Is the property timber framed?
☐ Yes ☑ No

Will the gas supply cross a third parties land?
☐ Yes ☑ No

Is there an existing live gas supply at the property?
☑ Yes ☐ No

If yes, please provide Meter Point Reference Number
(If more than 1, please list in Additional Information)

1473902

Does the supply follow a normal space heating pattern?
☑ Yes ☐ No
(If No, please complete table C1 on page 8)

Will a compressor, booster, CHP be fitted?
☐ Yes ☐ No *(If yes, please complete tables C1 and C2 on page 8* UNKNOWN AT THIS STAGE

Is the pressure at the inlet to supply the meter installation required to be >21 mbar?
☐ Yes ☑ No

Load type i.e.: On-Off, Modulating, process etc

MODULATING

Additional Information

To help us progress your application, please provide any additional information including any potential site restrictions, anomalies, construction period restraints or enhanced facilities.

ADDITIONAL METER POINTS:
1474006, 1474107, 1473801

REFER TO THE FOLLOWING ATTACHMENTS:
TN-001
SK-001
SK-002
SK-003.

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Important: You **must provide** this information as it is required in order for us to provide an accurate design to the anticipated gas usage. Please indicate you Gas Load information in the table below. If you are unsure of any details, a Gas Safe Registered Engineer will be able to help you with your calculations. For assistance, please visit: www.gassaferegister.co.uk

Gas Load information

Property Type	Number Of Each Type	Hourly Gas Load (KW/h)	Annual Gas Load (KW/Hh)	For Alterations please confirm the existing load
e.g. Terraced House	*15*	*25*	*1500*	*1200*
COLLEGE (PHASE 3	1	1720	1,720,000	
COLLEGE (PHASE 6)	1	740	740,000	
SCHOOL	1	1060	1,060,000	
OFFICE	1	240	240,000	
RESIDENTIAL	—	2670	2,670,000	
		Total: 6423	Total: 6,430,000	Total:

Attachment checklist

Please make sure that you have included the following upon submission of your application form:

☑ A plan clearly showing the preferred meter positions and preferred route (if the application is for an alteration please indicate the existing meter position as well as the new). REFER TO SK-001

☑ A scaled plan that clearly shows the outline of the site boundary and the surrounding geography. REFER TO SK003

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Additional Information for Non-Typical Demands

Please note: You will only need to provide information on this page if your supply does not follow a normal space heating pattern or you will be using a booster, compressor or CHP *(usually only for commercial or industrial properties)*. An engineer from the Gas Safe Register can provide you with assistance completing tables C1 and C2. Please visit www.gassaferegister.co.uk for assistance.

Table C1 - Where a non - typical demand profile is identified

To identify the proposed profile of gas use, it is necessary to understand the time(s) of day and year at which the gas demand is required and if the demand varies from this level at the other key times / conditions of the day and year. –

Non-Typical Demand?	Please indicate times and level of demand			
Start Oct – end May	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h
Start Jun – end Aug	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h
Other periods of year	☐ 6am – 10am	☐ 10am – 4pm	☐ 4pm – 8pm	☐ 8pm – 6am
	KW/h	KW/h	KW/h	KW/h

Table C2 - Where a compressor or booster is to be installed

Peak instantaneous demand to be compressed and the pressure required			KW/h	Mbar/bar
Compressor Type - Reciprocating / Fan / Screw / Booster / Other *(please state)*				
Number of Compressors / Boosters and the Peak Instantaneous Demand For Each Excluding Standby	Number	Flow	**Plant 1** **KW/h** **m3/HR** ..... **Plant 2** **KW/h** **m3/HR** ..... **Plant 3** **KW/h** **m3/HR**	
Time taken to achieve full load from start up				seconds
Profile provided for no linear start up profile			☐ Yes ☐ No ☐ N/a	
Number of Burners to be installed?				Quantity
Will burners be in parallel?			☐ Yes ☐ No ☐ N/A	

Typical Burner Stages	Start-up pre-purge	Pilot fire	Low Fire	High Fire
Flow as % of burners PID – burner 1				
Minimum time for each stage(s) – burner 1				
Flow as % of burners PID – burner 1				
Minimum time for each stage(s) – burner 2				
Flow as % of burners PID – burner 2				
Minimum time for each stage(s) – burner 3				

Technical note- TN-001

Project:	Richmond upon Thames Campus	**To:**	Kathryn Dryden
Subject:	New Gas Supply	**From:**	National Grid
Date:	25 Mar 2015	**cc:**	

Introduction

A new development at Richmond upon Thames college campus is being designed and is in the early feasibility stages. A quote is required for a new gas supply to the site for costing purposes and so an application form for non-domestic or non-standard band 2 or 3 works has been completed. The purpose of this technical note is to clarify the figures and assumptions made in the application form.

The proposed project is located on the site of Richmond-upon-Thames College, in Twickenham, in the London Borough of Richmond-upon-Thames. The site currently comprises of the existing Richmond upon Thames College, and recreational land.

The proposed development consists of a new campus for education and enterprise comprising a college, a school (including a 5FE secondary school, SEN schools; the Clarendon School and Newhouse School), a technical hub (for the Haymarket group including photographic studios and supporting spaces), and sports shared by the school and college, and accessible to the local community. Land is also being sold to residential units, however details of this are unknown at this stage. The project will be phased as detailed in attached sketch SK-002.

As the project is currently in feasibility stage, the point of connection is unknown and the energy strategy is currently undefined. It is unknown at this stage if CHP will be adopted, however it is a possibility.

Attachments

The following sketches have been included with this application:

SK-001: Masterplan illustrative layout with the proposed service route markets out in order to help estimate the total service length.

SK-002: Phasing details at their current state to aid with the application. These details will be developed as the design progresses.

SK-003: A layout drawing to scale detailing the masterplan of the Richmond education and enterprise campus.

Calculations

A peak gas load of the whole site was estimated based on BSRIA rules of thumb, CIBSE guide G and predicted usage profiles. The following table details the total areas for the buildings, the estimated peak gas loads and the meters sizes as detailed in the application form.

The college is split up into two phases as detailed in SK-002. In phase 3 of the development, the main college building will be constructed and in phase 6, the STEM and sports building part of the college will be constructed. The residential buildings do not require a meter as this is not owned by the site, however should be accounted for in the total peak gas load.

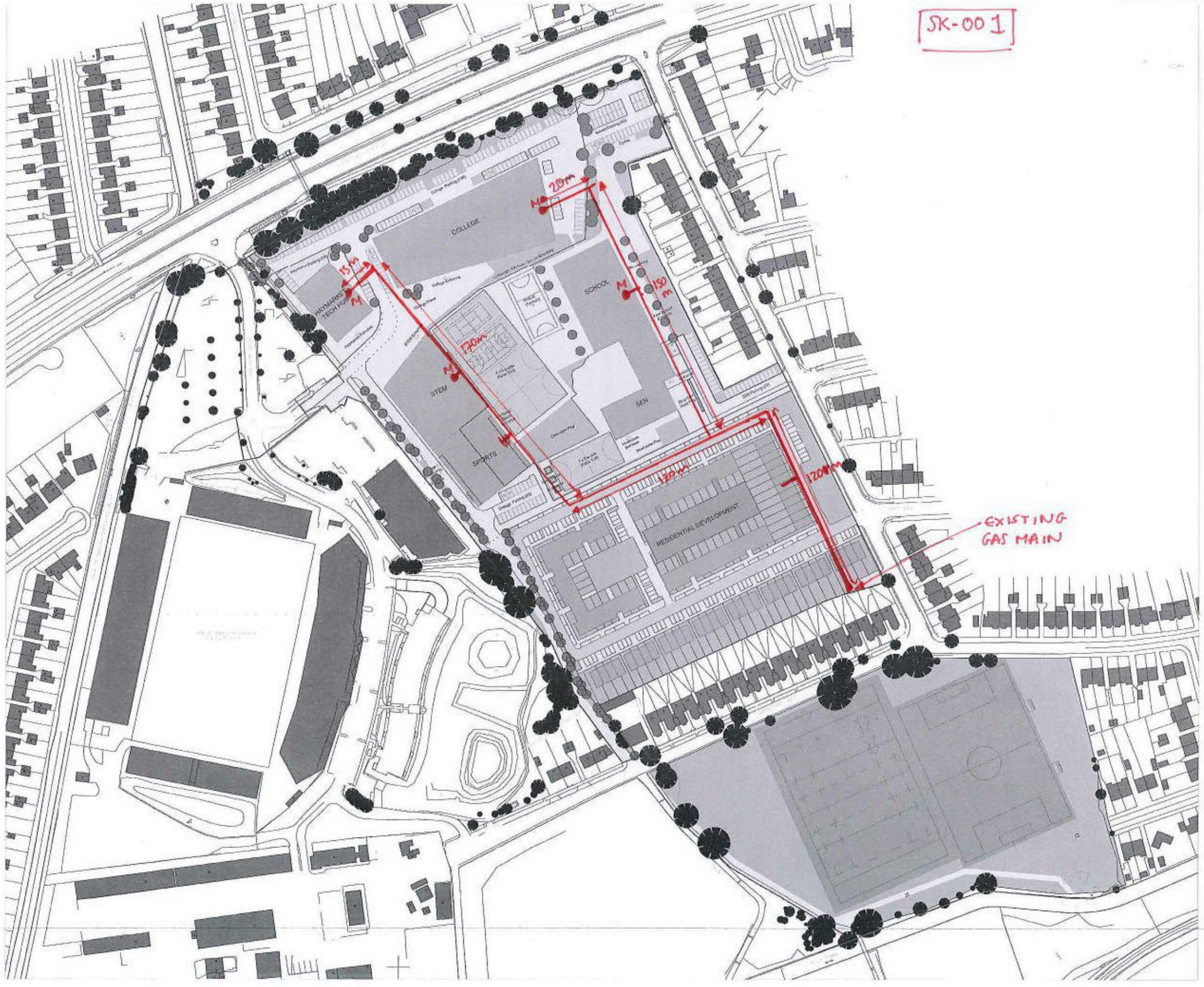
Technical note- TN-001

Building	Total area (m2)	Estimate peak gas load (kW)	Meter size
College (phase 3)	14000	1720	U160
College (phase 6)	6000	740	U100
School	8765	1060	U100
Haymarket (office)	1908	240	U25
Residential	11732	2670	N/A
		6423	

The hourly gas load is assumed to be the peak gas load as shown in the table above. The annual gas load is assumed to be 1000 x hourly gas load based on an estimate rule of thumb.

DO NOT SCALE

SK-001



M • PREFERRED METER POSITIONS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
2	3/2/15	HoK residential layout updated on Masterplan	KD	CW	CW
1					

Drawing Status: DRAFT — Suitability: S0

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Client:

Project Title: RICHMOND EDUCTAION AND ENTERPRISE CAMPUS

Drawing Title: Masterplan Illustrative Layout

Scale	Designed	Drawn	Checked	Authorised
1:1000	KD	SR	KD	CW
Original Size: A1	Date: 18/02/15	Date: 18/02/15	Date: 18/02/15	Date: 18/02/15

Drawing Number: 5137894-ATK-ZZ-DR-A-9200 — Revision: 02

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