CLEAN AIR ACT 1993 section 14 & 15

Application for approval of the height of chimney(s) serving furnace(s)

Name and address of local authority:

Hertsmere Borough Council, Civic Offices, Elstree Way, Borehamwood, Hertfordshire, WD6 1WA

Telephone number: 020 8207 2277

A. Full name and address of applicant:

Telephone number:

Address of premises where chimney(s) is/are or will be constructed (if different from above):

Name and address of consultant, contractor or other agent (if employed):

Telephone number:

Name and address of consultant, contractor or other agent (if employed):

Telephone number:

B. Brief description of proposed works:

C. Category under which chimney height approval is sought: (tick box)

(a) Construction of new chimney(s) ☐

(b) Increase of combustion space of existing furnace ☐

(c) Replacement of furnace by one having larger combustion space ☐

To be completed on behalf of the applicant (Note 1):

Signature: ……

Print name: ……

Date: ……

Particulars to accompany an application for approval

A. Description and use of furnace(s)

1. Intended use of furnace(s) (e.g. boiler plant, metal or reheating, calcing, drying etc.)

2. Type and description of furnaces(s) (Note 2)

3. (a) Particulars of furnace(s) to be installed

   (b) Particulars of changes intended to existing furnace(s)

   (c) Particulars of furnace(s) to be removed

B. Rating and fuel consumption

4. (a) Maximum continuous rating of boiler(s) (MW (megawatts) or pounds steam per hour from and at 100^0C or B.T.U.'s per hour

   (b) Maximum rate of fuel consumption in kilograms per hour or cubic metres per hour (separately for different fuels)

5. (a) Type(s) of fuel to be used (Note 3)

   (b) Gross calorific value in MJ/kg or MJ/m^3 (separately for different fuels)

6. Sulphur content of fuel %

C. Particulars of emissions

7. Quantity and quality of emissions (if any) from the material being heated e.g., fume, sulphur trioxide, hydrogen sulphide

8. (a) Volume of chimney gases at working temperature (cubic metres per second calculated from paragraph 4(b) above)

(b) Working temperature of chimney gases in degrees C. (state point of measurement)

(c) Efflux velocity of chimney gases at working temperature and at maximum loading of plant (metres per second)

D. Particulars of buildings

9. Height of building to which the chimney(s) is/are attached: ----------

10. Length of building to which the chimney(s) is/are attached: ----------

11. Width of building to which the chimney(s) is/are attached: ----------

12. Height(s) of adjacent buildings(s): ----------

13. Distance of adjacent buildings from proposed chimney(s): ----------

E. Particulars of chimney for which approval required

14. Height of chimney above ground level:

15. Details of construction of chimney (materials, insulation, single or multi-flue internal diameter of chimney top):

F. Supplementary information

16. Scale site plan of proposal, together with scale site plan of other emission sources on same site with heights of chimneys and approximate distances from chimney(s) for which approval is sought. The site plan must clearly show the relationship between the proposed and other development. The site plan must also show the surrounding topographical features and the relationship between the proposal and those features. (Use space overleaf, or attach a separate sheet).

17. Any other information relevant to the application:

NOTES:

1. Section 15(4) of the Clean Air Act 1993 provides as follows: "If a local authority to whom an application is duly made for approval fail to determine the application and to give a written notification of their decision to the applicant within four weeks of receiving the application or such longer period as may be agreed in writing between the applicant and the authority, the approval applied for shall be treated as having been granted without qualification".

2. The information should relate to the total furnace or boiler plant which the proposed chimney will serve after all the works have been completed.

3. If oil specify type and viscosity. If solid fuel give specification, or source, if known.

The third edition of the 1956 Clean Air Act Memorandum on chimney heights (issued with Joint Circular DoE 25/81 Welsh Office 12/81) provides technical guidance. This is available from the Stationary Office.

S.I. Units in relation to Chimney Heights

1 Kw	=	3,450 Btu/h
1,000 Btu/h	=	0.29 Kw
1,000,000 Btu/h	=	290 Kw (approx)
1,250,000 Btu/h	=	362.5 Kw (approx)
1 litre	=	0.21997 gallons
1 gallon	=	4.5461 litres
1 lb	=	0.4536 Kg
100 lb	=	45.4 Kg
1 Kg	=	2.2046 lbs

Relative densities – Fuel Oils

Kerosene			0.79
Gas Oil	Redwood	33 approx	0.835
Light Fuel Oil	Redwood	250 max	0.93
Medium Fuel Oil	Redwood	1000 max	0.94
Heavy Fuel Oil	Redwood	3500 max	0.96

litres/hr x relative density = Kg/hr (approx)

The calorific value of gas = 37.9 MJm^3