Horsham District Council

HORSHAM DISTRICT COUNCIL CONSULTATION

TO:	Horsham District Council – Planning Dept
LOCATION:	Viking House Foundry Lane Horsham
DESCRIPTION:	Installation of new boiler flue
REFERENCE:	DC/25/0839
RECOMMENDATION:	Advice / No Objection / Objection / More Information / Modification / Refusal

MAIN COMMENTS:

- Confirmation of what is the new boiler rated output in kW or MW. If plant exceeds the threshold in section 14 of the Clean Air Act (366.4kW) then chimney height approval will be required. I have attached a chimney height approval form should this be needed.
- The proposed flue would rise 1m above roof level. To comply with IGEM/UP/10 Edition 4, the chimney height, rounded up to the nearest metre, shall give a termination position at least 3 m above the level of any adjacent area to which there is general access, for example roof areas.

NAME:	Thais Delboni
DEPARTMENT:	Environmental Health and Licensing
DATE:	09/07/2025

Horsham District Council

CLEAN AIR ACT 1993

Application for approval of the height of a chimney serving a furnace (section 14)

This form should be used to apply for approval of the height of a chimney serving a furnace or boiler that will burn:

- pulverised fuel
- any other solid fuel at a rate of 45.4 kg or more per hour
- any liquid or gaseous matter at a rate equivalent to 366.4 kW or more

Once completed, return the form to:

Horsham District Council
Environmental Health & Licensing
Albery House
Springfield Road
Horsham
West Sussex RH12 2GB
ehl@horsham.gov.uk

Name of applicant	Ceres Power Limited
Address	Viking House, Foundry Lane, Horsham RH13 5PX
Telephone number	+44 1403 273463
Address of premises where the chimney will be located (if different from above)	
Name and address of contractor, consultant or other agent (if applicable)	David Seaman, DLS Arch, 46 Spitalfield Lane, Chichester, West Sussex, PO19 6SH
Brief description of work	Supply & install a new flue system serving a new gas fired condensing boiler, suitable for a future hydrogen fired condensing boiler. The flue itself would have a grade 304 stainless steel outer casing & to comply with current regulations would rise above roof level, approximately 15m from plant room finished floor level.

Category under which chimney height approval is being sought

Construction of new chimney	Yes/No
Increase of combustion space of existing furnace	Yes/No
Replacement of furnace by one having a larger combustion space	Yes/No
Change of fuel so that chimney	Yes/No

Description and use of furnace

Intended use of furnace (e.g. boiler plant, melting or reheating, calcining, drying etc.)	Boiler plant for building central heating
Type and description of furnace	Natural gas fired fully modulating condensing boiler. Flue system suitable for a future hydrogen fired condensing boiler.
Particulars of furnaces to be installed	Wessex ModuMax mk3 WM254/508V condensing boiler.
Particulars of changes to existing furnace	
Particulars of furnace to be removed	Wessex ModuMAX220 boiler to be removed.

Rating and Fuel Consumption

Maximum continuous rating of furnace in kW or MW	Two 254kW floor standing boilers stacked vertically. Boilers to alternate in use on timer system. Second boiler to come on automatically in case of fault or during high demand. Total output 508kW at 50/30 C, 478kW at 80/60C.	
Maximum rate of fuel consumption in kg per hour or m^3 per hour (separately for different fuels)	52.4m3/hr	
Types of fuel to be used		
Fuel type	Gross calorific value (MJ/kg or MJ/m3	Sulphur content of fuel %
Nat Gas (G20)	39.1 (on latest invoice)	Unknown

Emissions

Particulars of emissions (please specify whether from the combustion of fuel or from the material being heated). Emissions to be given as g/s	Target CO2 % at High / Low fire Nat Gas 8.75%-9.25% Approximately peak 33g/s NOx emission at 0% O2 (dry) Nat Gas mg/kWh = 38.8 Approximately 0.005 peak g/s
Volumetric flow of flue gas emitted at working temperature (m^3/s)	Approximately 708m3/hr, 0.20m3/s Flue gas volume corrected to a flue gas temperature of 15°C, @ 9.1% CO2 and barometric pressure of 1013.25mbar.
Working temperature of flue gases (°C). State point of measurement.	82°C

Particulars of Buildings

Height of building to which chimney is attached (m)	15m
Length of building to which chimney is attached (m)	80m

Width of building to which chimney is attached (m)	47m
Height(s) of adjacent building(s) (m)	7m
Distance of adjacent building(s) from proposed chimney (m)	30m
Distance to nearest openable window/fan-assisted intake (m)	Min 4.7m to window below

Particulars of Chimney for which Approval required

Height of the chimney (materials, insulation, single or multi-flue, internal diameter of flue terminus). (Efflux of flue gases shall not be impeded by any cap, cowl or other attachment.)	Approx 15m from plant room floor Single flue 350mm i/dia x 400mm o/dia throughout Standard open top stub terminal.
Details of construction of chimney (materials, insulation, single or multi-flue, internal diameter of flue terminus)	The flue system proposed would comprise multi-application products suitable for gas, biomass and oil fired appliances; ideal for modern high efficiency and condensing applications. Typical product construction would be grade 316 stainless steel liner, grade 304 stainless steel outer casing, and 25mm (nominal) void being packed with a dense mineral wool fibre. All joints would include proprietary seals where necessary, and cover bands / locking bands as applicable. Fire ratings are 4 hours.

Supplementary information

Please provide a scale site plan of the proposal, together with other emission sources on the same site, annotated with heights of chimneys and approximate distances from the 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. Separate sheets may be submitted to accompany this form. A fully worked calculation of the chimney height must be provided using the Technical Guidance Note (Dispersion) D1 – Guidelines on Discharge Stack Heights for Polluting Emissions. Alternatively, if dispersion modelling techniques have been used, details of the input and output parameters shall be submitted.

Please include any other information relevant to the application:

Signed
Applicant



..... Date 16/07/2025

NAME ROBIN BEELEY
Block capitals