



Application for Planning Permission. Town and Country Planning Act 1990

Publication of applications on planning authority websites

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

Please complete using block capitals and black ink.

It is important that you read the accompanying guidance notes as incorrect completion will delay the processing of your application.

1. Applicant Name and Address

Title: First name:

Last name:

Company (optional):

Unit: House number: House suffix:

House name:

Address 1:

Address 2:

Address 3:

Town:

County:

Country:

Postcode:

2. Agent Name and Address

Title: First name:

Last name:

Company (optional):

Unit: House number: House suffix:

House name:

Address 1:

Address 2:

Address 3:

Town:

County:

Country:

Postcode:

3. Description of the Proposal

Please describe the proposed development, including any change of use:

THE MERCIA ENVIRECOVER FACILITY - PROPOSED DEVELOPMENT OF AN ENERGY FROM WASTE FACILITY FOR THE COMBUSTION OF NON-HAZARDOUS WASTE AND THE RECOVERY OF ENERGY. COMPRISING THE ENERGY FROM WASTE FACILITY BUILDINGS AND ASSOCIATED INFRASTRUCTURE (INCLUDING AN EXCAVATED DEVELOPMENT PLATFORM; SITE ACCESS; INTERNAL ROADS; WEIGHTBRIDGES; CAR PARKING; FENCING; DRAINAGE WORKS; AND LANDSCAPING).

Has the building, work or change of use already started? Yes No

If Yes, please state the date when building, work or use were started (DD/MM/YYYY): (date must be pre-application submission)

Has the building, work or change of use been completed? Yes No

If Yes, please state the date when the building, work or change of use was completed: (DD/MM/YYYY): (date must be pre-application submission)

4. Site Address Details

Please provide the full postal address of the application site.

Unit: House number: House suffix:

House name: **PLOT H600**

Address 1: **OAK DRIVE**

Address 2: **HARTLEBURY TRADING ESTATE**

Address 3:

Town:

County: **WORCESTERSHIRE**

Postcode (optional): **DY10 4JB**

Description of location or a grid reference.
(must be completed if postcode is not known):

Easting: **270 000** Northing: **386 000**

Description:

VACANT DEVELOPMENT PLOT ON ESTABLISHED INDUSTRIAL ESTATE

5. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application? Yes No

If Yes, please complete the following information about the advice you were given. (This will help the authority to deal with this application more efficiently).

Please tick if the full contact details are not known, and then complete as much as possible:

Officer name: **PAUL WAITLAND**

Reference:

Date (DD/MM/YYYY): **22/01/2010**
(must be pre-application submission)

Details of pre-application advice received?
THE MEETING REFERENCED WAS ONE OF A NUMBER OF MEETINGS AND INVOLVED DISCUSSION ON EIA SCOPING, DESIGN AND A PRE-APPLICATION PRESENTATION

6. Pedestrian and Vehicle Access, Roads and Rights of Way

Is a new or altered vehicle access proposed to or from the public highway? Yes No

Is a new or altered pedestrian access proposed to or from the public highway? **SITE WILL BE ACCESSED FROM A PRIVATE ROAD** Yes No

Are there any new public roads to be provided within the site? Yes No

Are there any new public rights of way to be provided within or adjacent to the site? Yes No

Do the proposals require any diversions /extinguishments and/or creation of rights of way? Yes No

If you answered Yes to any of the above questions, please show details on your plans/drawings and state the reference of the plan (s)/drawings(s)

7. Waste Storage and Collection

Do the plans incorporate areas to store and aid the collection of waste? Yes No

If Yes, please provide details:
THE DEVELOPMENT IS A WASTE MANAGEMENT FACILITY - SEE CHAPTER 5 OF THE ENVIRONMENTAL STATEMENT FOR A DETAILED SCHEME DESCRIPTION

Have arrangements been made for the separate storage and collection of recyclable waste? Yes No

If Yes, please provide details:
THE OFFICE, WELFARE AND VISITOR FACILITIES WILL ALL HAVE SEPARATE BINS FOR SOURCE SEGREGATING RECYCLABLES

8. Neighbour and Community Consultation

Have you consulted your neighbours or the local community about the proposal? Yes No

If Yes, please provide details:
REFER TO THE COMMUNITY INVOLVEMENT STATEMENT AT PART 4 OF THE PLANNING APPLICATION DOCUMENT

9. Authority Employee / Member

With respect to the Authority, I am:
(a) a member of staff
(b) an elected member
(c) related to a member of staff
(d) related to an elected member
Do any of these statements apply to you? Yes No

If yes please provide details of the name, relationship and role

10. Materials

If applicable, please state what materials are to be used externally. Include type, colour and name for each material:

	Existing (where applicable)	Proposed	Not applicable	Don't Know
Walls		PROFILED STEEL SHEET & COMPOSITE CLADDING, WITH BRICK PLINTH SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Roof		SINGLE PLY MEMBRANE SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Windows		GLAZED SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Doors		VARIOUS SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Boundary treatments (e.g. fences, walls)		WELDMESH SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle access and hard-standing		VARIOUS SEE APPLICATION DRAWINGS	<input type="checkbox"/>	<input type="checkbox"/>
Lighting		TO BE CONTROLLED BY A PLANNING CONDITION. REFER TO CHAPTER 5 OF THE ES FOR DESCRIPTION	<input type="checkbox"/>	<input type="checkbox"/>
Others (please specify)			<input type="checkbox"/>	<input type="checkbox"/>

Are you supplying additional information on submitted plan(s)/drawing(s)/design and access statement?

Yes

No

If Yes, please state references for the plan(s)/drawing(s)/design and access statement:

DRAWINGS 1204-PL0001 TO PL00018 (EXCLUDING PL0004)
DRAWINGS 900-01-001 & 900-01-002
DESIGN AND ACCESS STATEMENT CONTAINED AT PART 2 OF THE PLANNING APPLICATION DOCUMENT

11. Vehicle Parking

Please provide information on the existing and proposed number of on-site parking spaces:

Type of Vehicle	Total Existing	Total proposed (including spaces retained)	Difference in spaces
Cars	0	45	
Light goods vehicles/ public carrier vehicles	0	0	
Motorcycles	0	2	
Disability spaces	0	4 (INCLUDED IN THE 45)	
Cycle spaces	0	8	
Other (e.g. Bus)	0	1	
Other (e.g. Bus)	0	—	

12. Foul Sewage

Please state how foul sewage is to be disposed of:

- Mains sewer Cess pit
 Septic tank Other
 Package treatment plant

Are you proposing to connect to the existing drainage system? Yes No

If Yes, please include the details of the existing system on the application drawings and state references for the plan(s)/drawing(s):

CONNECTION TO PRIVATE ESTATE
WASTEWATER TREATMENT WORKS
REFER TO DRAWING No. 900-01-02

13. Assessment of Flood Risk

Is the site within an area at risk of flooding? (Refer to the Environment Agency's Flood Map showing flood zones 2 and 3 and consult Environment Agency standing advice and your local planning authority requirements for information as necessary.)

Yes No

If Yes, you will need to submit a Flood Risk Assessment to consider the risk to the proposed site.

Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)? Yes No

Will the proposal increase the flood risk elsewhere? Yes No

How will surface water be disposed of?

- Sustainable drainage system Existing watercourse
 Soakaway Pond/lake
 Main sewer

14. Biodiversity and Geological Conservation

To assist in answering the following questions refer to the guidance notes for further information on when there is a reasonable likelihood that any important biodiversity or geological conservation features may be present or nearby and whether they are likely to be affected by your proposals.

Having referred to the guidance notes, is there a reasonable likelihood of the following being affected adversely or conserved and enhanced within the application site, or on land adjacent to or near the application site?

a) Protected and priority species:

- Yes, on the development site
 Yes, on land adjacent to or near the proposed development
 No

b) Designated sites, important habitats or other biodiversity features:

- Yes, on the development site
 Yes, on land adjacent to or near the proposed development
 No

c) Features of geological conservation importance:

- Yes, on the development site
 Yes, on land adjacent to or near the proposed development
 No

15. Existing Use

Please describe the current use of the site:

VACANT DEVELOPMENT PLOT

Is the site currently vacant? Yes No

If Yes, please describe the last use of the site:

PART OF AN RAF MAINTENANCE
DEPOT AND FORMER RAILWAY SIDING

When did this use end (if known)?
DD/MM/YYYY

(date where known may be approximate)

~1974

Does the proposal involve any of the following:

Land which is known to be contaminated? Yes No

Land where contamination is suspected for all or part of the site? Yes No

A proposed use that would be particularly vulnerable to the presence of contamination? Yes No

If you have answered Yes to any of the above, you will need to submit an appropriate contamination assessment.

16. Trees and Hedges

Are there trees or hedges on the proposed development site? Yes No

And/or: Are there trees or hedges on land adjacent to the proposed development site that could influence the development or might be important as part of the local landscape character? Yes No

If Yes to either or both of the above, you will need to provide a full Tree Survey, with accompanying plan before your application can be determined. Your Local Planning Authority should make clear on its website what the survey should contain, in accordance with the current 'BS5837: Trees in relation to construction - Recommendations'.

17. Trade Effluent

Does the proposal involve the need to dispose of trade effluents or waste? Yes No

If Yes, please describe the nature, volume and means of disposal of trade effluents or waste

- INCINERATOR BOTTOM ASH (~43,000 tpa) TO BE RECYCLED OFF-SITE
- AIR POLLUTION CONTROL RESIDUES (~7,500 tpa) TO BE DISPOSED OF AT A SUITABLY PERMITTED HAZARDOUS WASTE FACILITY
- NO TRADE EFFLUENT
- REFER TO CHAPTER 5 OF ES

18. Residential Units (Including Conversion)

Does your proposal include the gain, loss or change of use of residential units?
If Yes, please complete details of the changes in the tables below:

Yes

No

Proposed Housing							
Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Existing Housing							
Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Social Rented							
Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Social Rented							
Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Intermediate							
Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Intermediate							
Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Key worker							
Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Key worker							
Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	<input type="checkbox"/>						
Flats and maisonettes	<input type="checkbox"/>						
Live-work units	<input type="checkbox"/>						
Cluster flats	<input type="checkbox"/>						
Sheltered housing	<input type="checkbox"/>						
Bedsit/studios	<input type="checkbox"/>						
Unknown type	<input type="checkbox"/>						
Totals (a + b + c + d + e + f + g) =							

Total proposed residential units (A + B + C + D) =

Total existing residential units (E + F + G + H) =

TOTAL NET GAIN or LOSS of RESIDENTIAL UNITS (Proposed Housing Grand Total - Existing Housing Grand Total):

19. All Types of Development: Non-residential Floorspace

Does your proposal involve the loss, gain or change of use of non-residential floorspace? Yes No

If you have answered Yes to the question above please add details in the following table:

Use class/type of use	Not applicable	Existing gross internal floorspace (square metres)	Gross internal floorspace to be lost by change of use or demolition (square metres)	Total gross internal floorspace proposed (including change of use)(square metres)	Net additional gross internal floorspace following development (square metres)
A1	<input checked="" type="checkbox"/>				
Shops	<input checked="" type="checkbox"/>				
Net tradable area:	<input checked="" type="checkbox"/>				
A2	<input checked="" type="checkbox"/>				
Financial and professional services	<input checked="" type="checkbox"/>				
A3	<input checked="" type="checkbox"/>				
Restaurants and cafes	<input checked="" type="checkbox"/>				
A4	<input checked="" type="checkbox"/>				
Drinking establishments	<input checked="" type="checkbox"/>				
A5	<input checked="" type="checkbox"/>				
Hot food takeaways	<input checked="" type="checkbox"/>				
B1 (a)	<input type="checkbox"/>	0		2,515 m ²	2,515 m ²
Office (other than A2)	<input type="checkbox"/>				
B1 (b)	<input checked="" type="checkbox"/>				
Research and development	<input checked="" type="checkbox"/>				
B1 (c)	<input checked="" type="checkbox"/>				
Light industrial	<input checked="" type="checkbox"/>				
B2	<input checked="" type="checkbox"/>				
General industrial	<input checked="" type="checkbox"/>				
B8	<input checked="" type="checkbox"/>				
Storage or distribution	<input checked="" type="checkbox"/>				
C1	<input checked="" type="checkbox"/>				
Hotels and halls of residence	<input checked="" type="checkbox"/>				
C2	<input checked="" type="checkbox"/>				
Residential institutions	<input checked="" type="checkbox"/>				
D1	<input checked="" type="checkbox"/>				
Non-residential institutions	<input checked="" type="checkbox"/>				
D2	<input checked="" type="checkbox"/>				
Assembly and leisure	<input checked="" type="checkbox"/>				
OTHER	<input type="checkbox"/>	0		8,241 m ² *	8,241 m ² *
WASTE MANAGEMENT	<input type="checkbox"/>				
Please Specify	<input type="checkbox"/>	* INCLUDES WEIGHBRIDGE BUILDING AND AIR COOLED CONDENSER STRUCTURE			
Total				10,756 m ²	10,756 m ²

In addition, for hotels, residential institutions and hostels, please additionally indicate the loss or gain of rooms

Use class	Type of use	Not applicable	Existing rooms to be lost by change of use or demolition	Total rooms proposed (including changes of use)	Net additional rooms
C1	Hotels	<input type="checkbox"/>			
C2	Residential Institutions	<input type="checkbox"/>			
OTHER		<input type="checkbox"/>			
Please Specify		<input type="checkbox"/>			

20. Employment

Please complete the following information regarding employees:

	Full-time	Part-time	Total full-time equivalent
Existing employees			
Proposed employees	42		42

21. Hours of Opening

Please state the hours of opening for each non-residential use proposed:

Use	Monday to Friday	Saturday	Sunday and Bank Holidays	Not known
WASTE TREATMENT	24 HRS	24 HRS	24 HRS	
HGV DELIVERIES	06.00 - 19.00	06.00 - 19.00	06.00 - 19.00	

22. Site Area

Please state the site area in hectares (ha)

23. Industrial or Commercial Processes and Machinery

Please describe the activities and processes which would be carried out on the site and the end products including plant, ventilation or air conditioning. Please include the type of machinery which may be installed on site:

REFER TO TEXT OVERLEAF *

Is the proposal a waste management development? Yes No

If the answer is Yes, please complete the following table:

	Not applicable	The total capacity of the void in cubic metres, including engineering surcharge and making no allowance for cover or restoration material (or tonnes if solid waste or litres if liquid waste)	Maximum annual operational throughput in tonnes (or litres if liquid waste)
Inert landfill	<input checked="" type="checkbox"/>		
Non-hazardous landfill	<input checked="" type="checkbox"/>		
Hazardous landfill	<input checked="" type="checkbox"/>		
Energy from waste incineration	<input type="checkbox"/>		APPROXIMATELY 200,000 tpa
Other incineration	<input checked="" type="checkbox"/>		
Landfill gas generation plant	<input checked="" type="checkbox"/>		
Pyrolysis/gasification	<input checked="" type="checkbox"/>		
Metal recycling site	<input checked="" type="checkbox"/>		
Transfer stations	<input checked="" type="checkbox"/>		
Material recovery/recycling facilities (MRFs)	<input checked="" type="checkbox"/>		
Household civic amenity sites	<input checked="" type="checkbox"/>		
Open windrow composting	<input checked="" type="checkbox"/>		
In-vessel composting	<input checked="" type="checkbox"/>		
Anaerobic digestion	<input checked="" type="checkbox"/>		
Any combined mechanical, biological and/or thermal treatment (MBT)	<input checked="" type="checkbox"/>		
Sewage treatment works	<input checked="" type="checkbox"/>		
Other treatment	<input checked="" type="checkbox"/>		
Recycling facilities construction, demolition and excavation waste	<input checked="" type="checkbox"/>		
Storage of waste	<input checked="" type="checkbox"/>		
Other waste management	<input checked="" type="checkbox"/>		
Other developments	<input checked="" type="checkbox"/>		

Please provide the maximum annual operational throughput of the following waste streams:

Municipal	APPROXIMATELY 200,000 tpa
Construction, demolition and excavation	NONE
Commercial and industrial	NOT KNOWN, IF ANY
Hazardous	NONE

If this is a landfill application you will need to provide further information before your application can be determined. Your waste planning authority should make clear what information it requires on its website.

24. Hazardous Substances

Does the proposal involve the use or storage of any of the following materials in the quantities stated below? Yes No Not applicable

If Yes, please provide the amount of each substance that is involved:

Acrylonitrile (tonnes) <input type="text"/>	Ethylene oxide (tonnes) <input type="text"/>	Phosgene (tonnes) <input type="text"/>
Ammonia (tonnes) <input type="text"/>	Hydrogen cyanide (tonnes) <input type="text"/>	Sulphur dioxide (tonnes) <input type="text"/>
Bromine (tonnes) <input type="text"/>	Liquid oxygen (tonnes) <input type="text"/>	Flour (tonnes) <input type="text"/>
Chlorine (tonnes) <input type="text"/>	Liquid petroleum gas (tonnes) <input type="text"/>	Refined white sugar (tonnes) <input type="text"/>

Other:

Other:

Amount (tonnes):

Amount (tonnes):

***Proposed Activities, Processes and Machinery**

The following text describes the operations and process that would be undertaken at the site.

Operating Hours

It is proposed that the plant would process waste and generate electricity on a 24-hour basis. Waste would be brought onto the site between the hours of 06.00 and 19.00 up to seven days a week.

Waste Reception and Handling

Incoming vehicles would enter the site and proceed to the weighbridge, where the quantity of incoming waste is checked and recorded. The vehicles would proceed to the enclosed waste reception / tipping hall and discharge into a refuse bunker. A small quantity of material, if inappropriately sized, may pass through a shredder prior to discharge to the bunker. Above the bunker would be 2 overhead travelling cranes equipped with petal grabs. These would be used to mix, stack and load the refuse into the feed chutes of the furnaces. From here the waste would be transferred onto the grate by hydraulically powered feeding units. The backward flow of combustion gases or the premature ignition of waste would be prevented by keeping the chute full of waste and by keeping the furnace under negative pressure. A level detector would monitor the amount of waste in the feed chute and an alarm sounded if the waste falls below the safe minimum level. Secondary air would be injected from nozzles in the walls of the furnace to control flame height and the directions of air and flame flow. The feed rate to the furnace would be controlled by a combustion control system.

Combustion Process

The proposed facility would use a moving grate which comprises inclined fixed and moving bars that move the waste from the feed inlet to the residue discharge. The grate movement turns and mixes the waste along the surface of the grate to ensure that all waste is exposed to the combustion process. The start up burners (which typically operate for up to 16 hours during a start up event) will be gas fuelled, fuelled by either low sulphur gas oil or mains gas. There should be only two start-ups per year after planned maintenance activities.

Primary air for combustion is fed to the underside of the grate by a single inverter-driven fan. Secondary air is also admitted above the grate to create turbulence and ensure complete combustion with minimum levels of oxides of nitrogen (NO_x). The volume of both primary and secondary air is regulated by a combustion control system.

The combustion control system regulates combustion conditions (and thereby minimises the levels of pollutants and particulates in the flue gas before flue treatment) and controls the boiler. The furnace is also fitted with auxiliary burners, fuelled by either low sulphur gas oil or

mains gas, which would automatically maintain the temperature above 850°C, if temperatures start to fall below this. However, this rarely occurs. Combustion chambers, casings and ducts, and ancillary equipment are maintained under slight negative pressure to prevent the release of gases. The plant meets the requirements set down in the EU Waste Incineration Directive, which would be reflected in the Environmental Permit under which the facility would operate.

Boiler Water Treatment

A demineralisation plant would be provided as part of the facility, this will be located within the Turbine Complex Building. Various chemicals, including hydrochloric acid and caustic soda would be required for the demineralisation process and for boiler water dosing to prevent corrosion. The chemicals for demineralisation would be stored within a bunded area within the demineralisation plant. Caustic soda will be delivered by bulk tanker and offloaded into a 5 m³ tank in a bund. Hydrochloric acid will also be delivered by tanker and stored in a 5 m³ bunded tank after it is vented through a scrubber.

Flue Gas Treatment

Gases generated during the combustion process would be cleaned before being released into the atmosphere. The facility would be served by a flue gas treatment system and associated reagent storage silos. The treatment plant comprises a dry absorption system that includes activated carbon injection, dry lime scrubbing, and fabric filters, and would be designed to ensure that the plant operates within the emission limits set out in the Waste Incineration Directive.

Vehicles will be required to access the Flue Gas Treatment (FGT) plant in order to deliver Air Pollution Control (APC) reagents and export APC residues. The silos containing the APC reagents and residues will be located adjacent to the FGT on the lower level of the Main Building. APC reagents and residues will be transferred by sealed pumps into and out of the storage silos.

NO_x Reduction

NO_x levels would be managed through careful control of combustion air and selective non-catalytic reduction. This involves the injection of ammonium hydroxide solution into the combustion chamber of the boiler. The ammonium hydroxide reacts with both nitrogen oxide (NO) and nitrogen dioxide (NO₂) to form nitrogen and water.

Gas Scrubbing

Acid gases produced during the combustion process would be removed by a dry scrubbing system, using hydrated lime as a reagent. Neutralisation of the acid gases would take place as they react with the lime. The residual material would be recovered at the outlet of the flue

gas scrubbing system. Activated carbon would also be injected into the flue gas duct to minimise the flue gas emissions of dioxins, mercury and other heavy metals.

Fabric Filtering

After flowing through the gas scrubber, the gases would be drawn through a fabric bag filter to remove particulates, including lime and activated carbon particles. The fabric filter would be divided into at least four separate compartments allowing for maintenance as described below. The treated flue gas passes through an induced draught fan into the stack for release to the atmosphere. Regular bag filter cleaning would be performed on-line by pulsing compressed air through the filter bags. The residues are known as Air Pollution Control (APC) residues and would be collected in fully enclosed hoppers beneath the filters.

Stack

Following cleaning, the combustion gases would be released into the atmosphere via the stack. Emission from the stack would be monitored continuously by an automatic computerised system and reported in accordance with the Environment Agency's requirements for the operation of the facility.

By-Product Handling and Disposal

Two types of solid by-products would be produced from the operation: bottom ash and APC residues, each of which would have separate handling and disposal arrangements.

Bottom Ash

Bottom ash is the burnt-out residue from the combustion process and approximately 6 tonnes per hour of bottom ash would be produced at full load. Ash would be quenched as it leaves the combustion chamber to both cool the ash and also reduce potential for emissions of ash into the air. Any water not vaporised in the quenching process would be collected and recycled for continued use in the quenching process. The bottom ash would be deposited into a common residuals bunker which would feed into a hopper by a clamshell grab overhead travelling crane. The residuals bunker would have sufficient capacity to store 4 days of ash. The ash is then discharged to a bottom ash hopper, which would have the capacity to cater for 48 tonnes (8 hours) of operational arisings at full capacity. The bottom ash would be taken off-site where extraction of ferrous metals will occur prior to the bottom ash being recycled aggregate capable of beneficial use.

Air Pollution Control (APC) Residues

APC residues from the flue gas treatment process would be collected in the bag filters. It is estimated that the operations would generate approximately 1 tonne of APC residues per hour, which would be stored in a silo adjacent to the flue gas treatment facility. The residue

APC silo has a capacity of 250 tonnes, which is sufficient for approximately 10 days storage, although at normal operating conditions only 10% of this capacity is generally used prior to export off site. Due to the alkaline nature of the APC residues, they are classified as hazardous waste (in much the same way as cement). The APC residues would be transported offsite to a Permitted Hazardous disposal facility. Alternatively the residues may be taken to an appropriate treatment facility where they could be re-used in the stabilisation of acid wastes.

25. Ownership Certificates

One Certificate A, B, C, or D, must be completed, together with the Agricultural Holdings Certificate with this application form

~~CERTIFICATE OF OWNERSHIP - CERTIFICATE A~~

~~Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7~~

~~I certify/The applicant certifies that on the day 21 days before the date of this application nobody except myself/the applicant was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land or building to which the application relates.~~

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

CERTIFICATE OF OWNERSHIP - CERTIFICATE B

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/ The applicant certifies that I have/the applicant has given the requisite notice to everyone else (as listed below) who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land or building to which this application relates.

Name of Owner	Address	Date Notice Served
WORLESTERSHIRE COUNTY COUNCIL	WORLESTERSHIRE COUNTY COUNCIL COUNTY HALL, SPETCHLEY ROAD, WORCESTER WR5 2NP	

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

N. Roberts

30/4/10

~~CERTIFICATE OF OWNERSHIP - CERTIFICATE C~~

~~Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7~~

~~I certify/ The applicant certifies that:~~

- ~~Neither Certificate A or B can be issued for this application~~
- ~~All reasonable steps have been taken to find out the names and addresses of the other owners (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of the land or building, or of a part of it, but I have/the applicant has been unable to do so.~~

~~The steps taken were:~~

Name of Owner	Address	Date Notice Served

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

25. Ownership Certificates (continued)

CERTIFICATE OF OWNERSHIP - CERTIFICATE D

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/ The applicant certifies that:

- Certificate A cannot be issued for this application
- All reasonable steps have been taken to find out the names and addresses of everyone else who, on the day 21 days before the date of this application, was the owner (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of any part of the land to which this application relates, but I have/ the applicant has been unable to do so.

The steps taken were:

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

26. Agricultural Holdings

AGRICULTURAL HOLDINGS CERTIFICATE

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

Agricultural Land Declaration - You Must Complete Either A or B

(A) None of the land to which the application relates is, or is part of, an agricultural holding.

Signed - Applicant:

Or signed - Agent:

XDRoberts

Date (DD/MM/YYYY):

30/4/10

(B) I have/ The applicant has given the requisite notice to every person other than myself/ the applicant who, on the day 21 days before the date of this application, was a tenant of an agricultural holding on all or part of the land to which this application relates, as listed below:

Name of Tenant	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

27. Planning Application Requirements - Checklist

Please read the following checklist to make sure you have sent all the information in support of your proposal. Failure to submit all information required will result in your application being deemed invalid. It will not be considered valid until all information required by the Local Planning Authority has been submitted.

The original and 3 copies of a completed and dated application form:



The correct fee:



The original and 3 copies of the plan which identifies the land to which the application relates drawn to an identified scale and showing the direction of North:



The original and 3 copies of a design and access statement:



The original and 3 copies of other plans and drawings or information necessary to describe the subject of the application:



The original and 3 copies of the completed, dated Ownership Certificate (A, B, C, or D - as applicable):



The original and 3 copies of the completed, dated Article 7 Certificate (Agricultural Holdings):



28. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information.

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

(date cannot be pre-application)

29. Applicant Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

30. Agent Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

31. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

Yes

No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? (Please select only one)

Agent

Applicant

Other (if different from the agent/applicant's details)

If Other has been selected, please provide:

Contact name:

Telephone number:

Email address: