

ENVIRONMENTAL PROTECTION ACT 1990, PART 1
THE ENVIRONMENTAL PROTECTION (PRESCRIBED PROCESSES
AND SUBSTANCES) REGULATIONS 1991 SI []
THE ENVIRONMENTAL PROTECTION (APPLICATIONS, APPEALS
AND REGISTERS) REGULATIONS 1991 SI []

TAL

APPLICATION FOR AUTHORISATION UNDER SECTION 6 OF THE
ENVIRONMENTAL PROTECTION ACT 1990

1. Either Name and address of applicant*

J. MULDERMAN S
MANAGING DIRECTOR
BROAD STREET,
COVENTRY CV6 5BG

OR Name, number and registered office of applicant
company* (if applicable)

T.R.A.F.A.L.G.A.R. FOUNDRY LTD
BROAD STREET
COVENTRY CV6 5BG
WARWICKS

* the person/company who will operate the process, not
e.g the person/consultant who is writing the
application on the operator's behalf.

2. Name and address of premises where process is or will be
carried on (not applicable to mobile processes)

T.R.A.F.A.L.G.A.R. FOUNDRY LTD
BROAD STREET
COVENTRY CV6 5BG
WARWICKS

3. Address for correspondence if different from 1

.....
.....
.....
.....

4. List of maps or plans enclosed with the application showing the location of the premises where the process is or will be carried on.

... 2 SETS OF MAPS (4 COPIES EA)

... 2 SETS OF PLANS (4 COPIES EA)

.....
.....

Where the process is or will be carried on only part of the premises whose address is given at 2 above, either describe which part of the premises or list the plan(s) which identifies these parts.

.....
.....
.....
.....

5. List of attached documents comprising part of the application **

... SAFETY SPECIFICATION SHEETS
... OF MATERIALS CONSUMED & STORED

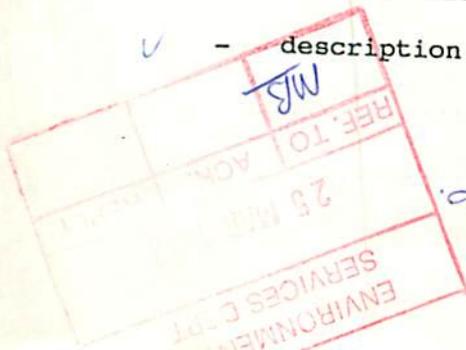
2 COPIES OF FOUNDRY PROCESSES
1 APPLICATION FORM

DESCRIPTION OF TECHNIQUES USED
TO PREVENT RELEASE IN THE ATMOSPHERE
INCLUDED IN FOUNDRY PROCESSES

(use continuation sheet if necessary)

** Regulation 2 of the Environmental Protection (Applications, Appeals and Registers) regulations 1991 requires that all applications must include the following information (for guidance on these requirements see General Guidance note No 3) - "Secretary of State's Guidance: Application and Registers", HMSO. 1991):-

✓ - description of the prescribed process ✓



159546
800.00

- ✓ - list of prescribed substances (and any other substances) which might cause harm if released into the air) used in connection with or resulting from the prescribed process
- ✓ - description of the techniques to be used for preventing releases into the air of such substances, for reducing such substances to a minimum and for rendering harmless any such substances that are released
- details of any proposed release of such a substance into the air and an assessment of the environmental consequences
- proposals for monitoring any release of such substances, the environmental consequences or any such release and the use of techniques for preventing (etc)?? releases
- the matters on which the applicant relies to establish that the objectives in section 7(2) of the Act will be achieved and that he will be able to comply with the condition implied by section 7(4) of the Act

The applicant may also supply any other information he wishes the Local Authority to take into account in considering his application.

Fee enclosed (cheques to be made payable to
 ...COVENTRY...C.I.T.Y...... Council)
 £ ..8.00...00.....

I hereby certify that all the information contained in this application is, to the best of my knowledge, correct.

.......... (Signature) :
15/3/92..... (Date)

TRAFALGAR FOUNDRY LTD.

Directors: O.V.C. KEELING (Mrs.) - J.MULDERMANS

REGISTERED No. 448450 ENGLAND

High Duty

Cast Irons

17-20 Tons Tensile

BROAD STREET, COVENTRY, CV6 5BG

COVENTRY 687457 & 689438

FAX No. (0203) 682066

Hydraulic Valve

and

Pump Castings

MARCH 1992

FOUNDRY PROCESSES

— RECEIPT OF MATERIALS

RAW MATERIALS : PIG IRON, SCRAP IRON, COKE, LIMESTONE, STEEL, FIRECLAY (GANISTER). They are stored in the main yard and present no hazard. Other materials including chemicals are stored in sealed metal drums inside the foundry or in locked stores (see plan).

— USE OF MATERIALS

Raw materials are transported by forklift truck and clumper daily to coldblast furnace located inside the foundry. Fireclay (ganister) is used daily to dress and reline the cupola melting area. Coke and the various metals are charged mechanically into the cupola.

The coke bed is ignited by gas and left to burn naturally 4 to 5 hours (10 AM to 2:30 PM). The furnace is then charged up with the coke, limestone and a mix of pig iron, scrap iron and steel.

The cold blast air is then switched on for the period of the melt: approx $1\frac{1}{2}$ hours which is equal to 4 TONS of metal.

Size of cupola : $2\frac{1}{2}$ TONS per hour INT. DIA: 30"

TRAFALGAR FOUNDRY LTD.

2

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High Duty

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Hydraulic Valve

Cast Irons

COVENTRY 687457 & 689438

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and

17-20 Tons Tensile

Pump Castings

- CUPOLA EMISSIONS. They are controlled and contained by a wet dust spark arrestor. This system is operated by a water tank which holds water mixed with rodo (anti acid chemical) and which pumps the water up to the top of the cupola and is diffused to form a curtain of water which arrests particles emitted by the furnace and channelled into the settling tank. These particles are non toxic and non acidic.
- MATERIALS FOR CORES AND MOULDS
FOR CORES we use sand, oil binders (glyso) or CO₂ gas and sodium silicate.
Oil bound cores are put in a gas oven overnight to cure.
Moulds are produced in sand with CO₂ gas and sodium silicate on the floor and with synthetic sand on the moulding machines. The additional materials mixed with the sand are berkbon, carsinex and wood flour.
CO₂ gas is delivered by tanker and pumped into a sealed container in the main yard and therefrom distributed by pipe into the foundry moulding area for use on flour moulds.
The following materials are used for producing and dressing cores and moulds: coaldust, molico plumbago, hardcote, moldcote, GZA sunny, premkoze IPS Spirits.

TRAFALGAR FOUNDRY LTD.

3

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Pump Castings

— METAL CAST.

SOME MOULDS incorporate esothermic sleeves to aid the feed of castings and also alsica feeding powder.

As the metal melts, it is tapped into a ladle and inoculated with superseed to remove slag from the surface. We sprinkle KOAG to skim the surface and remove dross.

Some alloy elements such as nickel, chromium and molybdenum are sometimes added to obtain different grades of metal.

The molten metal is poured into the moulds through strainer cores placed into the feeders.

— ANALYSIS

Small samples of metal are analysed in a carbon equivalent determinator using TECTIPS. The moulds are now poured and left overnight to cool. They are knocked out next day and the castings are inspected, shotblasted and fettled prior to despatch.

All dust and metal particles released during shot blast and fettling operations are collected into a dust extraction unit incorporating filter bags and trays.

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17-20 Tons Tensile

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COVENTRY 687457 & 689438

FAX No. (0203) 682066

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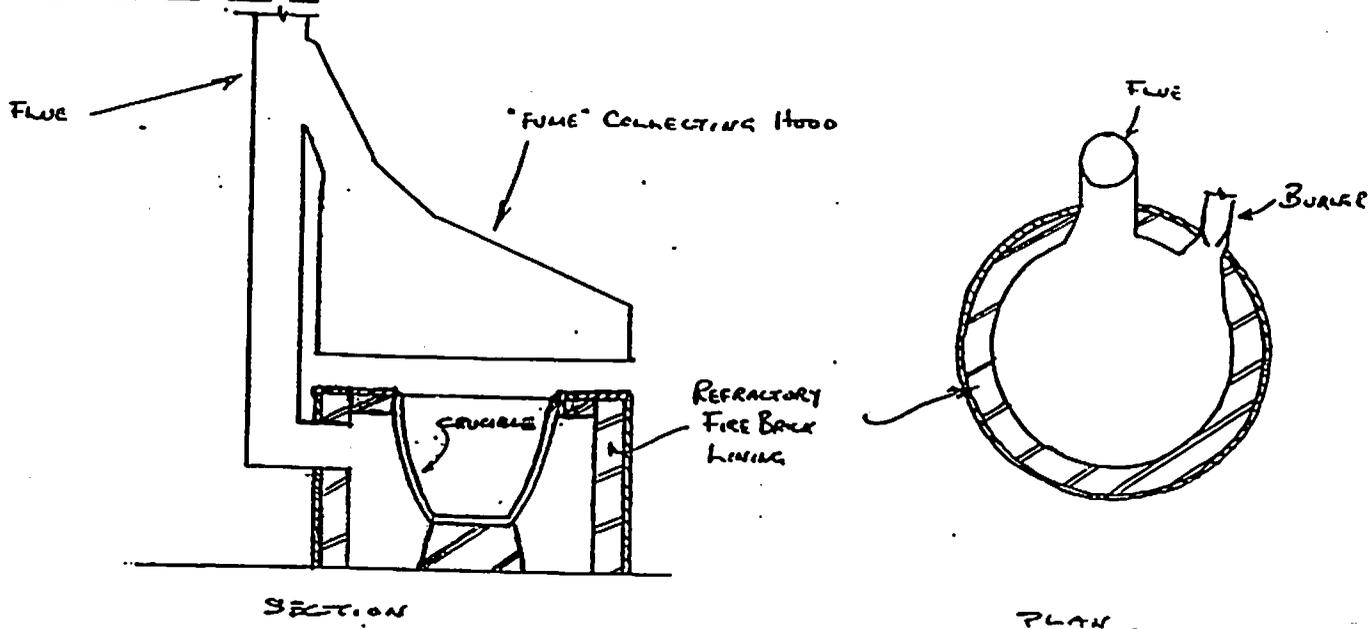
The filter bags are checked weekly and trays emptied daily.

Synthetic sands are recycled and re-used. Co₂ sodium silicate sand is used once and then disposed of daily by outside waste disposal contractor.

Castings are despatched to customers by our own transport.

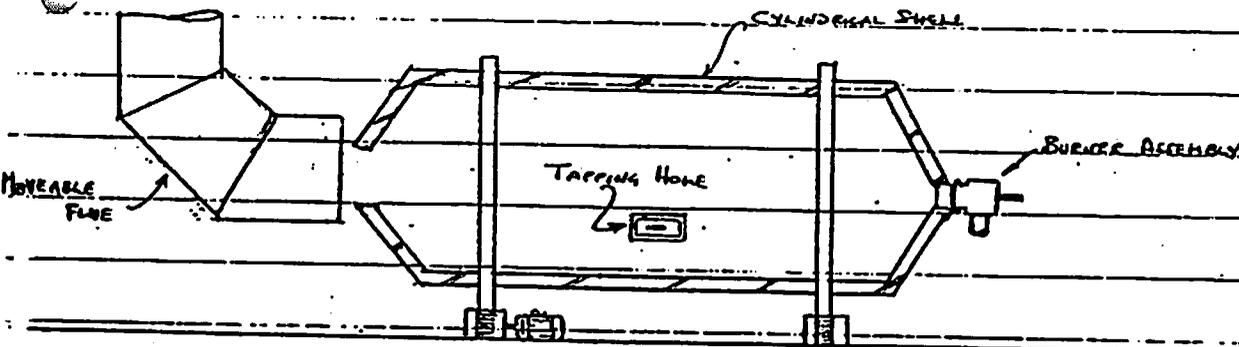


1/ CRUCIBLE FURNACES.



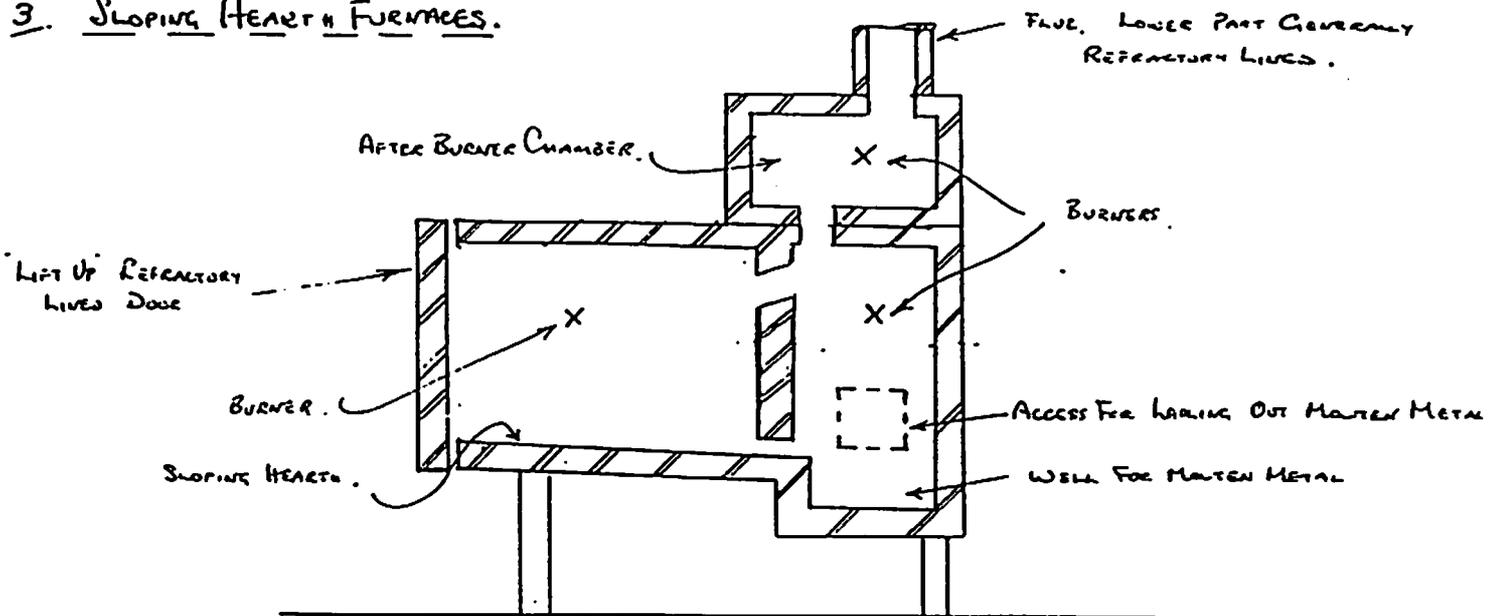
Small scale melting - mainly in foundries and some works producing some alloys eg zinc alloy. - may be tilting or bale-out type, or lift out interior. oil or gas fired - tangential inlets for rotary gas flow around crucible giving max. heat transfer - hood over furnace may be fixed with opening giving suitable access for charging and emptying, or may be movable. Capacity - a few kg to 760 kg. - Poor thermal efficiency.

2/ ROTARY FURNACES



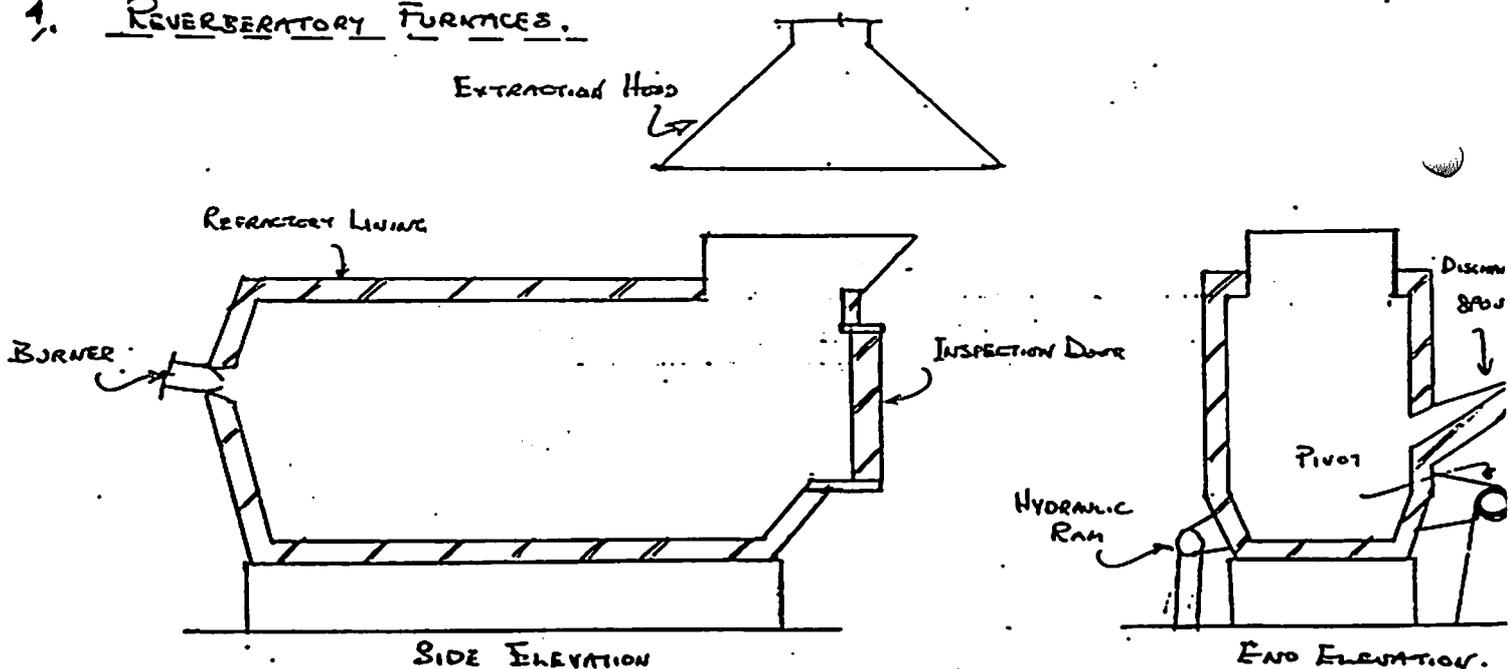
Thermal advantage - hot lining heats metal from below as furnace rotates, metal heated above by flame from burner. Heating of metal from below offsets insulating effect of slag layer; changed by moving aside end flue or may be of tilting type; furnace tilted to near vertical for charging; molten metal emptied from top hole opened at end of melt.

3. SLOPING HEARTH FURNACES.



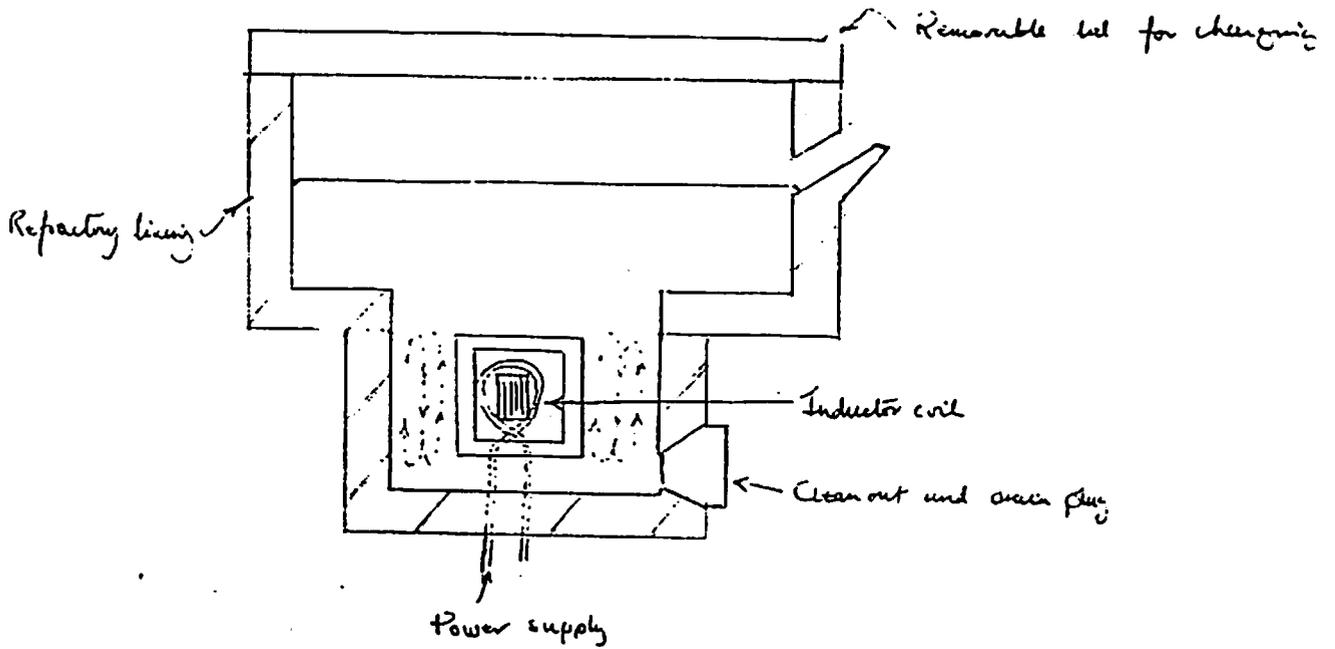
Mainly used for separating low melting point metals eg aluminum, lead, zinc, from other materials; usually oil fired but may use gas. charge loaded at front, metal allowed to melt and run off, scrap raked out from front; manually controlled oil burners easily maladjusted to give excessive smoke; lift up door subject to heavy wear and tear, large volume of low level smoke and fume evolved when door is badly fitting: (fumes atmosphere under +ve pressure).

4. REVERBERATORY FURNACES.



Both or tank type furnaces; majority use oil or gas firing; burner flames projected down length of furnace or across width; larger units use waste gases to preheat air; may be tilting type or fixed with sealable tapping orifice: few smoke problems generally.

5. CHANNEL INDUCTION FURNACE



Efficiency $> 80\%$ for continuous melting of some metals, suitable for iron up to 1500°C and for aluminium and zinc alloys.

Your Reference :
Our Reference : **CI/IP/DRP**
Ask for : **D R Packard**
Direct Dialling No : **831856**
Date : **23rd April 1993**



HOUSING AND ENVIRONMENTAL
SERVICES DIRECTORATE

Director Howard T. Farrand
Providing Housing, Environmental and
Client Agency Services

Michael Green
City Environment Officer
Broadgate House
Broadgate
Coventry, CV1 1NH

THE ENVIRONMENTAL PROTECTION ACT 1990 Telephone : 0203 85 3333
Fax : 0203 85 1851

**The Environmental Protection (Prescribed Processes and Substances)
Regulations 1991, SI 472.**

**The Environmental Protection (Application, Appeals and Registers)
Regulations 1991, SI 507.**

**Authorisation No: 022
Application Received: 25/03/92**

Notice is hereby given that under the Environmental Protection Act
1990 Coventry City Council (hereafter called the Authority) gives
authorisation to:

**Trafalgar Foundry Ltd
Broad Street
Coventry
CV6 5BG**

Register in England No:

To operate a cold blast cupola for the melting of iron and ancillary
foundry operations at:

**Trafalgar Foundry Ltd
Broad Street
Coventry
CV6 5BG**

Subject to the conditions specified on the attached pages, Nos 1
to 4, and within the process boundary as indicated on Plan Nos 1 and 2

Signed 
Assistant Director of
Environmental Services

Dated...4... day of... MAY.....1993.

1. **PROCESS DESCRIPTION**

- 1.1 This authorisation is for the melting of pig iron, steel and scrap iron in a coke charged cold blast cupola with a capacity of not more than two and a half tonnes per hour; casting and ancillary foundry operations, including the manufacture of moulds using carbon dioxide, core making, fettling, grinding and shot blasting within the site, outlined in red on Plan No. 1, as prescribed under Section 2.1 Part B a(i) and e of the Prescribed Processes and Substances Regulations 1991.
- 1.2 Any change to the above process must not take place without the prior written consent of this Authority.

2. **EMISSION LIMITS AND CONTROLS**

- 2.1 All emissions to air from the stack of the cupola shall be free from dark smoke, except for a period not exceeding ten minutes in aggregate in any eight hour period. No continuous emission of dark smoke shall in the aggregate in any thirty minute period exceed four minutes in duration. No emission of black smoke exceed two minutes.
- 2.2 Dark smoke and black smoke, as referred to in 2.1, have the same meaning as in the Clean Air Act 1956, ie, dark smoke means smoke if compared to a Ringlemann chart, would appear to be as dark or darker than shade 2.

Black smoke means smoke, if compared to a Ringlemann chart, appears as dark or darker than Shade 4.

- 2.3 There shall be no malodour from the process outside the process boundary, as perceived by the Local Authority Inspector.

3. **MONITORING SAMPLING AND MEASUREMENT OF EMISSIONS**

- 3.1 Visual and olfactory assessments of emissions from all aspects of the process shall be made at least once per day. Remedial action shall be taken immediately, in the event of abnormal emissions. In particular, monitoring shall include visual monitoring of emissions from the cupola during lighting from cold and during charging from the yard area; replenishment of bulk sand store and olfactory assessment of discharges from the core making oven.
- 3.2 The results of monitoring to comply with 3.1 shall be recorded in a log book, stating the date and time, who carried out the monitoring, from which location/s, the results of visual and olfactory assessment and any remedial action taken. The log book shall be kept on the premises for four years from the last entry and produced for inspection on demand of the Inspector.

4. **CUPOLA OPERATION**

- 4.1 The lighting of the cupola shall be by means of a lighted gas poker only.

- 4.2 The cupola shall not be operated unless the wet dust 'spark' arrester has been switched on and is in full working order.
- 4.3 The wet dust 'spark' arrester shall be checked on a weekly basis for correct operation of water sprays and water tank top up valves.
- 4.4 The water holding tanks for the wet dust 'spark' arrester shall be cleaned out at a frequency of no less than once every four weeks for the smaller tanks and no less than once every eight weeks for the larger tanks.
- 4.5 Only persons having received training on start up and shut down procedures and response to abnormal conditions shall operate the cupola. This training may be given by employees, acknowledged to be experienced in cupola operation.

5. SAND MOULD AND CORE MAKING

- 5.1 All mixing of sand and binders for moulds shall be undertaken within the building.
- 5.2 The hot curing of moulds shall only be undertaken in the gas fuelled oven as shown on Plan No. 2.

6. CASTING FINISHING PROCESSES

- 6.1 All "knock out" processes shall be carried out within the building.
- 6.2 All fettling grinding and shot blasting shall take place within the building and as far as possible (ie, where size of the cast is not prohibitive) all such operations shall take place within booths incorporating air extraction equipment.
- 6.3 The discharge of the extracted air from the booths in 6.2 shall be back into the workplace through a bag filter system.
- 6.4 The filter bags in 6.3 shall be inspected weekly and any repair carried out without delay. Collected dust shall be removed from the filter system on a daily basis and stored in sealed bags or containers prior to disposal.

7. MATERIALS HANDLING

- 7.1 A detailed inventory of all organic solvents used in the process, including cleaning solvents and the solvent content of proprietary chemical formulations (for example, mould dressings) shall be forwarded to the local authority every six months and within four weeks of the end of the six month period to which the inventory data relates.
- 7.2 Stocks of dusty or potentially dusty materials shall be stored in a manner to prevent wind whipping. Materials stored outside shall be either sheeted, damped or stored in covered containers.

- 7.3 The yard area shall be cleaned using a road sweeper, or similar, at least once every three months, to remove dusty material.
- 7.4 Sand shall only be stored in bulk in the bulk sand silo as marked on Plan No. 2, attached.
- 7.5 The bulk sand silo shall be fitted with a fabric or paper filter at the venting point, to minimise particulate emissions.
- 7.6 Sand shall only be delivered to the bulk sand silo when the fabric or paper filter, described in 7.5, is in place.
- 7.7 Any spillage of material in the yard area shall be cleared up as soon as possible. Dry sweeping shall not be used to clean up dusty materials.
- 7.8 The main door to the factory unit shall remain closed whenever possible to reduce the levels of fugitive emissions from the foundry processes.
- 7.9 Any mechanical breakdown which may effect the emission of prescribed substances to the air or any abnormal emission shall be noted in the record log book as in 3.2. Any significant incident that may directly effect nearby neighbours shall be notified immediately to the Authority by telephone.

8. UPGRADING PROGRAMME

- 8.1 Within twelve months of the date of this authorisation, an upgrading programme shall be submitted to the Authority, indicating what measures are to be undertaken to bring the foundry and its operation up to the relevant standard in the Secretary of State Guidance for Hot and Cold Blast Cupolas in PG 2/5 (91) and Secretary of State's guidance - Iron and Non-Ferrous Metal Foundry Processes in PG 2/4 (91).
- 8.2 The upgrading programme shall include monitoring data of volatile organic compound (VOC) emissions from the core bake oven flue. An assessment of the level of fugitive emissions of VOC's and particulates from the processes should also be undertaken and taken into account whilst formulating the upgrade programme for compliance with 8.1.

SUPPLEMENTARY NOTES

This is not part of the Authorisation

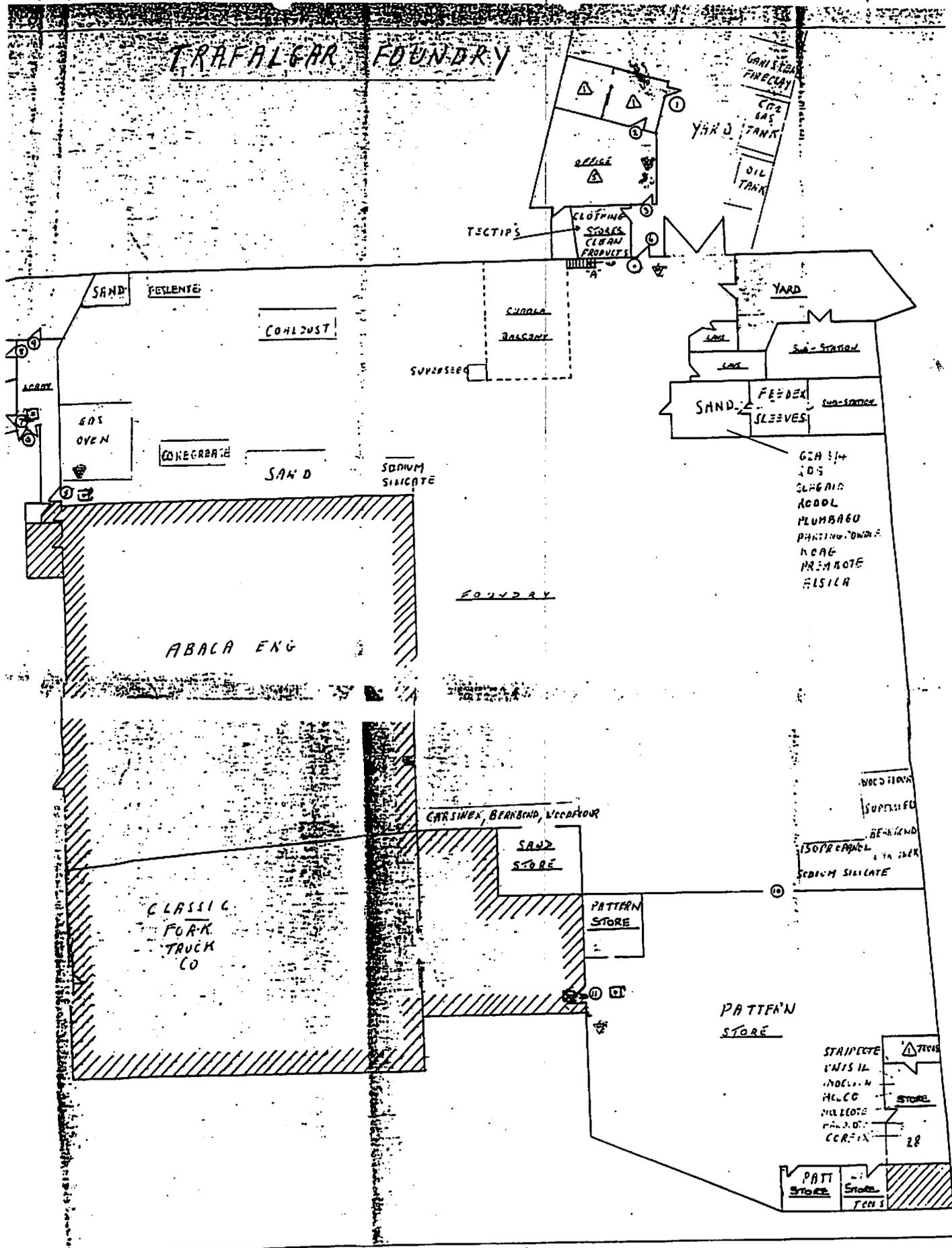
1. Your attention is drawn to your obligation under Section 7(2) of the Environmental Protection Act 1990 to ensure that the best available techniques, not entailing excessive cost (BATNEEC) for:
 - a) For preventing the release of prescribed substances prescribed in to the air or, where that is not practicable by such means, for reducing the release into the air of such substances to a minimum and for rendering harmless any such substances which are so released.

and

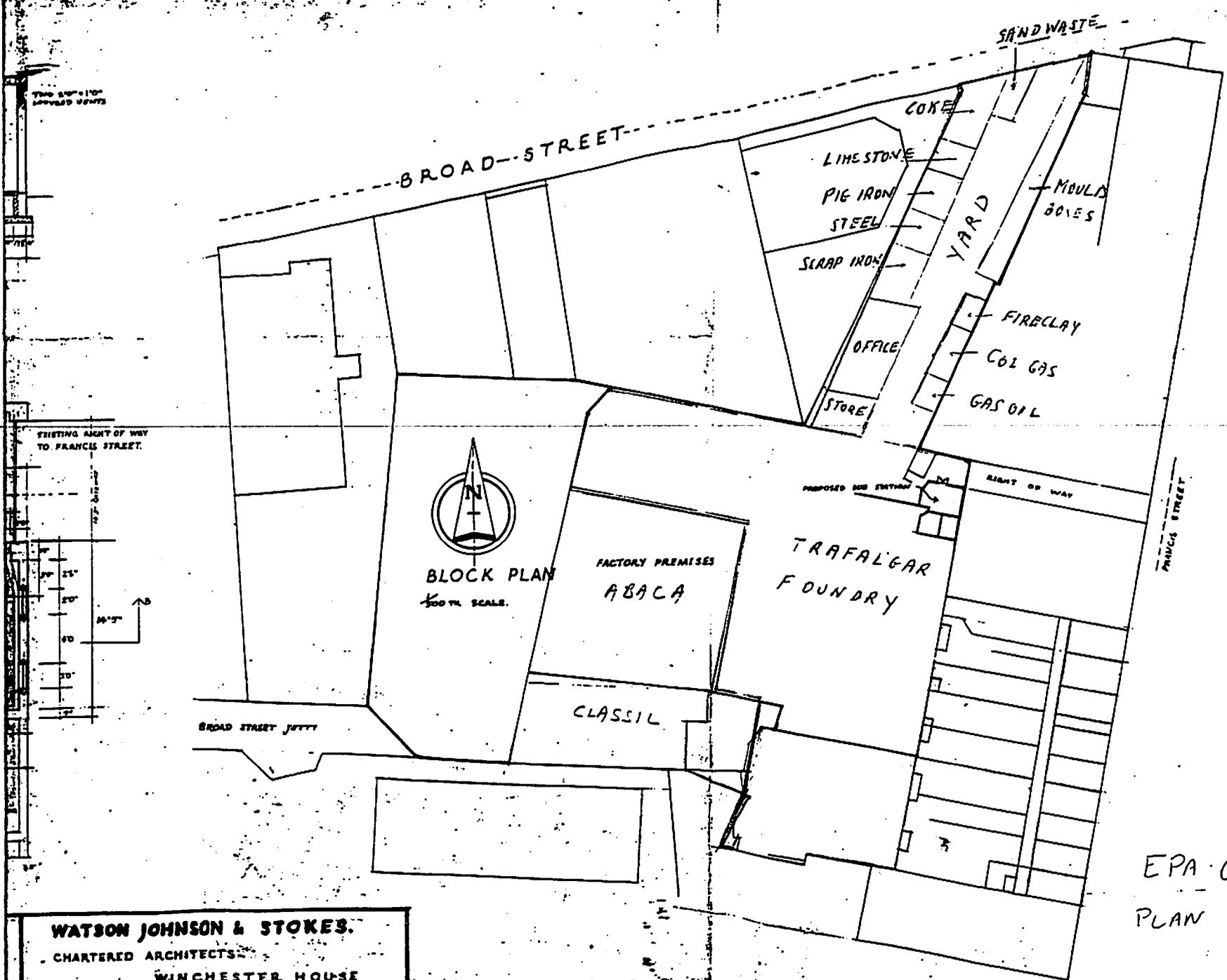
 - b) For rendering harmless any other substances which might cause harm if released into the air.
2. The Authority for contact purposes should be taken to mean the Head of the Pollution Control Section, of the Department of Housing and Environmental Services, telephone 831810 during office hours, 832222 outside office hours.
3. The upgrading programme should address, in particular, control of emissions from the cupola to meet the requirements of PG 2/5 (91) and the Control of internal emissions to minimise fugitive emissions of particulates and other prescribed substances included in PG 2/4 (91).

epa_B_auth/trafalgar

TRAFALGAR FOUNDRY



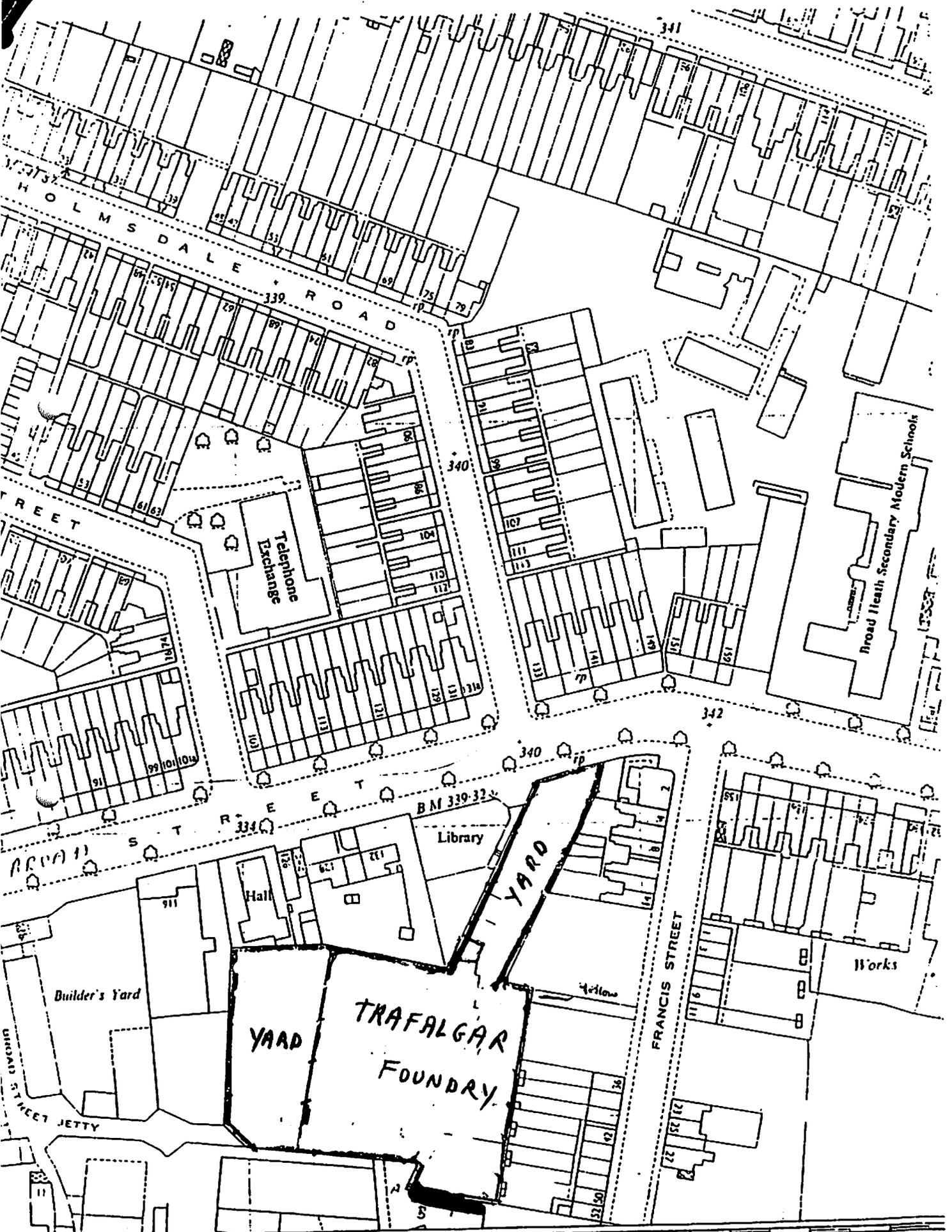
EPA. 022
PLAN 2



EPA 022
 PLAN 1

WATSON JOHNSON & STOKES.
 CHARTERED ARCHITECTS
 WINCHESTER HOUSE
 VICTORIA SQUARE BIRMINGHAM

258248



Works 343
 Works 344
 NORTH BORO CONST
 SP 3480 NW

ENVIRONMENTAL PROTECTION ACT 1990 section 10

NOTICE OF VARIATION OF AUTHORISATION

File
22

To **Trafalgar Foundry Ltd**
Of **Broad Street, Coventry, CV6 5BG**

The **Coventry City Council**
(the Authority) has decided that the authorisation to carry out a prescribed process, namely:
melting of iron in a cold blast cupola and ancillary foundry operations

at the premises known as **Trafalgar Foundry, Broad Street, Coventry**

granted to you by the Council on the 4th day of May 1993 under the reference number 022 should be varied in the following manner*

- 1) Clause 2.5 shall be deleted
- 2) Clause 4.4 shall be deleted and replaced with
"The water holding tanks for the wet dust spark arrested shall be cleaned out at a frequency of no less than once every eight weeks.
- 3) Clause 7.8 shall be deleted.

(PLEASE SEE ATTACHED)

The date(s) on which the variation(s) are to take effect are†

- 1) Immediately
- 2) Immediately
- 3) 1st June 1998

continued overleaf

Delete any words in square brackets which do not apply

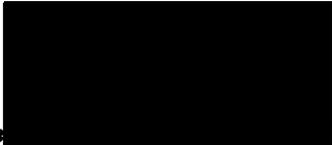
- * Specify the variation(s) to the authorisation.
† Specify the effective dates for each variation.
-

YOU ARE REQUIRED, within a period of 28 days from the date of service on you of this Notice, to notify the Authority of the action (if any) which you propose to take to ensure that the process is carried on in accordance with the authorisation as varied by this Notice.

~~[In the opinion of the Authority, the action to be taken by you in consequence of this Variation Notice will involve a substantial change** in the manner in which the process is being carried on.]~~

Dated 21st OCTOBER 1997.

(Signed)


DIRECTOR OF HOUSING

(Designation) AND ENVIRONMENTAL SERVICES
(the Officer appointed for this purpose)

Address for all communications:

Housing and Environmental Services Directorate
Broadgate House
Broadgate
COVENTRY
CV1 1NH

Delete any words in square brackets which do not apply

NOTE

You have a right of appeal against this Notice to the Secretary of State for [the Environment] [Wales]. If you wish to appeal you must do so in writing within a period of two months beginning with the date of this Notice. You must set out the grounds for your appeal and send to the Secretary of State a copy of this Notice, together with copies of all relevant documents and correspondence. You should also indicate whether you wish the appeal to be dealt with at a hearing or on the basis of written representations. A copy of your Notice of Appeal must also be sent to the Council.

** "Substantial change" is defined in Section 10(7) of the Environmental Protection Act 1990 as "a substantial change in the substances released from the process or in the amount or any other characteristic of any substance so released"; and the Secretary of State may give directions to enforcing authorities as to what does or does not constitute a substantial change in relation to processes generally, any description of process or any particular process.

ENVIRONMENTAL PROTECTION ACT 1990 section 10

NOTICE OF VARIATION OF AUTHORISATION

To **Mr J Muldermans**
Of **Trafalgar Foundry Ltd**

The **Coventry City Council**
(the Authority) has decided that the authorisation to carry out a prescribed process, namely:
melting of iron and ancillary foundry operations.

at the premises known as

Trafalgar Foundry, Broad Street, Coventry, CV6 5BG

granted to you by the Council on the 4th day of May 1993 under the reference number **021**
should be varied in the following manner*

- 1) Clause 2.3 shall be deleted.
- 2) Clause 3.3 shall become effective from 30th June 1997.
- 3) Clause 5.3 shall be deleted.
- 4) Clause 7.6.1 shall be deleted and replaced with

"The bulk sand silo shall be fitted with a high level alarm to warn of overfilling and delivery drivers shall be instructed to cease discharge of sand when the alarm sounds."

(PLEASE SEE ATTACHED)

The date(s) on which the variation(s) are to take effect are †

- 1) Immediately
- 2) 30th June 1997
- 3) Immediately
- 4) 30th June 1997.

continued overleaf

Delete any words in square brackets which do not apply

* Specify the variation(s) to the authorisation.

† Specify the effective dates for each variation.

FILE



ENVIRONMENTAL PROTECTION ACT 1990 section 10

NOTICE OF VARIATION OF AUTHORISATION

To **Mr Muldermans**

Of **Trafalgar Foundry Ltd, Broad Street, Coventry CV6 5BG**

The **Coventry City Council**

(the Authority) has decided that the authorisation to carry out a prescribed process, namely:

To operate a cold blast cupola for the melting of iron and ancillary foundry operations.

at the premises known as **Trafalgar Foundry, Broad Street, Coventry CV6 5BG**

granted to you by the Council on the **4th** day of **May 1993** under the reference number **022** should be varied in the following manner*

1. **Clause 2.4 shall be deleted**
2. **Clause 3.3 shall be deleted**

(PLEASE SEE ATTACHED)

The date(s) on which the variation(s) are to take effect are†

1. **Immediately**
2. **Immediately**

continued overleaf

Delete any words in square brackets which do not apply

* Specify the variation(s) to the authorisation.

† Specify the effective dates for each variation.

YOU ARE REQUIRED, within a period of 28 days from the date of service on you of this Notice, to notify the Authority of the action (if any) which you propose to take to ensure that the process is carried on in accordance with the authorisation as varied by this Notice.

~~[In the opinion of the Authority, the action to be taken by you in consequence of this Variation Notice will involve a substantial change** in the manner in which the process is being carried on.]~~

Dated 2ND MAY 1997

(Signed).....



(Designation) *DIRECTOR OF HOUSING AND ENVIRONMENTAL*
(the Officer appointed for this purpose) *SERVICE*

Address for all communications:

Housing and Environmental Services Directorate
Broadgate House
Broadgate
COVENTRY
CV1 1NH

Delete any words in square brackets which do not apply

NOTE

You have a right of appeal against this Notice to the Secretary of State for [the Environment] [Wales]. If you wish to appeal you must do so in writing within a period of two months beginning with the date of this Notice. You must set out the grounds for your appeal and send to the Secretary of State a copy of this Notice, together with copies of all relevant documents and correspondence. You should also indicate whether you wish the appeal to be dealt with at a hearing or on the basis of written representations. A copy of your Notice of Appeal must also be sent to the Council.

** "Substantial change" is defined in Section 10(7) of the Environmental Protection Act 1990 as "a substantial change in the substances released from the process or in the amount or any other characteristic of any substance so released"; and the Secretary of State may give directions to enforcing authorities as to what does or does not constitute a substantial change in relation to processes generally, any description of process or any particular process.

ENVIRONMENTAL PROTECTION ACT 1990 section 10
NOTICE OF VARIATION OF AUTHORISATION

To **Mr J Muldermans**
 Of **Trafalgar Foundry Ltd**

The **Coventry City Council**
 (the Authority) has decided that the authorisation to carry out a prescribed process, namely:
melting of iron and ancillary foundry operations.

at the premises known as

Trafalgar Foundry, Broad Street, Coventry, CV6 5BG

granted to you by the Council on the 4th day of May 1993 under the reference number 021
 should be varied in the following manner*

- 1) Clause 2.3 shall be deleted.
- 2) Clause 3.3 shall become effective from 30th June 1997.
- 3) Clause 5.3 shall be deleted.
- 4) Clause 7.6.1 shall be deleted and replaced with

"The bulk sand silo shall be fitted with a high level alarm to warn of overfilling and delivery drivers shall be instructed to cease discharge of sand when the alarm sounds."

(PLEASE SEE ATTACHED)

The date(s) on which the variation(s) are to take effect are†

- 1) Immediately
- 2) 30th June 1997
- 3) Immediately
- 4) 30th June 1997.

continued overleaf

Delete any words in square brackets which do not apply

Specify the variation(s) to the authorisation.

† Specify the effective dates for each variation.

YOU ARE REQUIRED, within a period of 28 days from the date of service on you of this Notice, to notify the Authority of the action (if any) which you propose to take to ensure that the process is carried on in accordance with the authorisation as varied by this Notice.

~~[In the opinion of the Authority, the action to be taken by you in consequence of this Variation Notice will involve a substantial change** in the manner in which the process is being carried on.]~~

Dated 17th APRIL 1997

(Signed).....

(Designation) CITY ENVIRONMENT OFFICER
(the Officer appointed for this purpose)

CERTIFICATE OF SERVICE BY HAND

Address for all communications:

Housing and Environmental Services Directorate
Broadgate House
Broadgate
COVENTRY
CV1 1NH

I, [redacted] being employed
as a ... EPO in the Housing and
Environmental Services Directorate of
Coventry City Council hereby certify that the
Notice of which this is a true copy was
served/delivered by me to TRAFALGAR FOUNDRY
of BROAD STREET, Coventry,
on 17th APRIL 1997

Signed [redacted]

Delete any words in square brackets which do not apply

NOTE

You have a right of appeal against this Notice to the Secretary of State for [the Environment] [Wales]. If you wish to appeal you must do so in writing within a period of two months beginning with the date of this Notice. You must set out the grounds for your appeal and send to the Secretary of State a copy of this Notice, together with copies of all relevant documents and correspondence. You should also indicate whether you wish the appeal to be dealt with at a hearing or on the basis of written representations. A copy of your Notice of Appeal must also be sent to the Council.

** "Substantial change" is defined in Section 10(7) of the Environmental Protection Act 1990 as "a substantial change in the substances released from the process or in the amount or any other characteristic of any substance so released"; and the Secretary of State may give directions to enforcing authorities as to what does or does not constitute a substantial change in relation to processes generally, any description of process or any particular process.

NOTICE OF VARIATION OF AUTHORISATION

To Trafalgar Foundry Ltd
Of Broad Street, Coventry, CV6 5BG

The Coventry City Council
(the Authority) has decided that the authorisation to carry out a prescribed process, namely:

Operation of a cold blast cupola for the melting of iron and ancillary foundry operations

at the premises known as **Trafalgar Foundry**

granted to you by the Council on the 4th day of May 1993 under the reference number 022 should be varied in the following manner*

1. Clause 2.1 shall be deleted and the following clause inserted:
"Smoke emissions from the cold blast cupola shall, in normal operation, not exceed the equivalent of Ringlemann Shade 1 as described in British Standard BS2742-1969, except in the case of lighting up when smoke emissions shall not exceed Ringlemann Shade 1 for no more than 15 minutes. Smoke emissions should at no time exceed Ringlemann Shade 2.
2. Clause 2.2 shall be deleted.
3. After Clause 2.3 there shall be inserted the following clauses:
"2.4 Emissions of Volatile Organic Compounds from the core making oven exhaust stack shall not exceed 50mg/m³, expressed as a 15 minute mean concentration.

(PLEASE SEE ATTACHED)

The date(s) on which the variation(s) are to take effect are†

- | | |
|-----------------------|----------------------|
| 1. Immediately | 5. 1st January 1996 |
| 2. Immediately | 6. Immediately |
| 3. 1st January 1996 X | 7. 1st December 1996 |
| 4. Immediately | 8. 1st December 1996 |
| | 9. Immediately |

continued overleaf

Delete any words in square brackets which do not apply

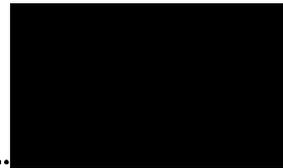
* Specify the variation(s) to the authorisation.

† Specify the effective dates for each variation.

YOU ARE REQUIRED, within a period of 28 days from the date of service on you of this Notice, to notify the Authority of the action (if any) which you propose to take to ensure that the process is carried on in accordance with the authorisation as varied by this Notice.

Dated 21 DECEMBER 1995

(Signed).....



DIRECTOR OF HOUSING
(Designation).....AND ENVIRONMENTAL SERVICES
(the Officer appointed for this purpose)

Address for all communications:

Housing and Environmental Services Directorate
Broadgate House
Broadgate
COVENTRY
CV1 1NH

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- "2.5 All pollutant concentrations shall be expressed at reference conditions 273K, 101.3 Pa without correction for water vapour content. The introduction of dilution air to achieve emission concentration limits shall not be permitted."
- "2.6 All ductwork and chimneys serving the core making oven and cold blast cupola shall be maintained so as to be leak proof. Ductwork and chimney flues serving the core making oven shall be cleaned annually."
4. In clause 3.1 after the words "discharges from the core making oven, the following shall be inserted:
"visual and olfactory assessment of emissions from all casting operations shall also be carried out.
5. After clause 3.2, the following clause shall be inserted:
"3.3 Emissions from the core making oven exhaust stack shall be tested for Volatile Organic Compounds at least annually following a method previously submitted to and approved by the Authority. Results of such testing shall be forwarded to the Authority within eight weeks of the test having been carried out."
6. After clause 4.5, the following clause shall be inserted:
"4.6 The minimum height of the chimney serving the cold blast cupola shall be six metres above roof ridge height and in any case fifteen metres above ground level."
7. After clause 5.2, the following clause shall be inserted:
"5.3 All organic solvent based substances used in core making shall be replaced by water based substances."
8. After clause 7.6, the following clause shall be inserted:
"7.6.1 The bulk sand silo shall be fitted with a high level alarm interlocked to interrupt off loading of sand."
9. Clauses 8.1 and 8.2 shall be deleted.