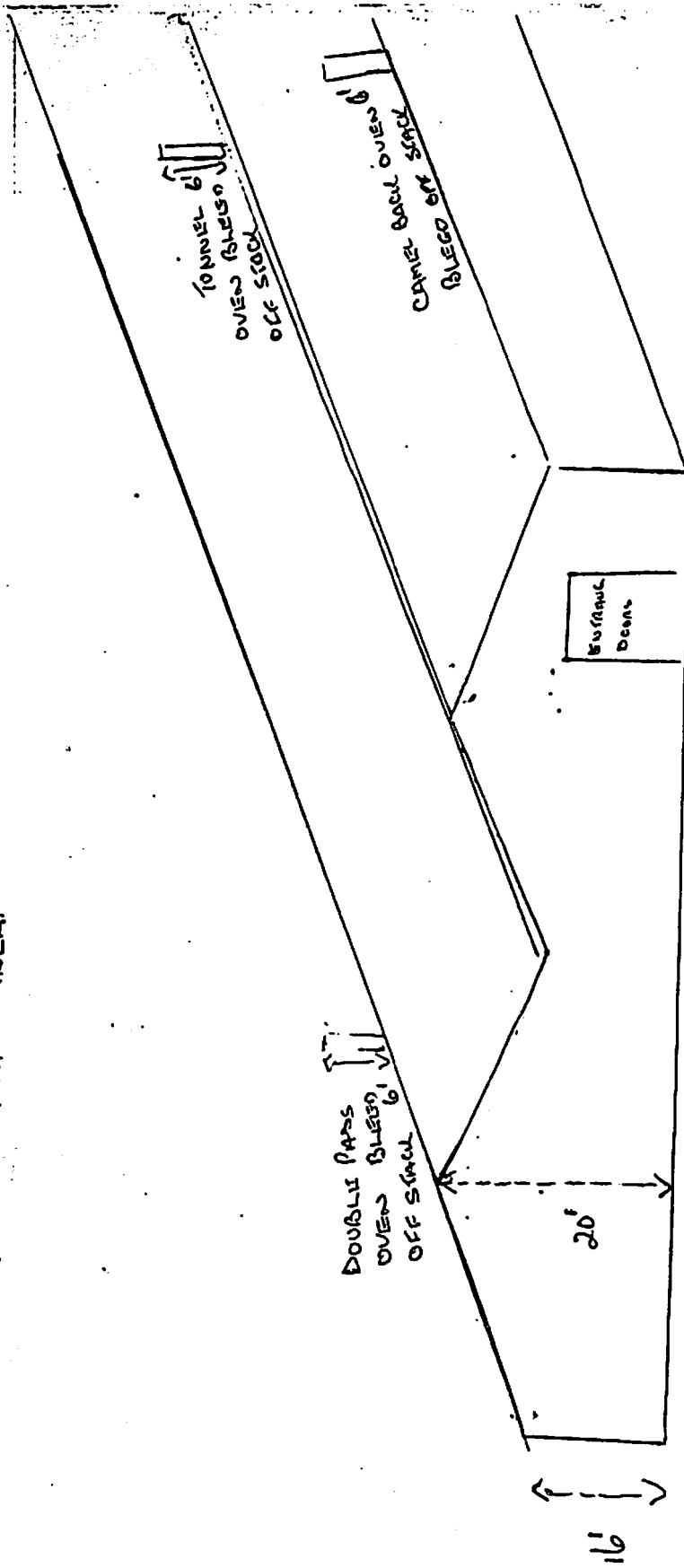


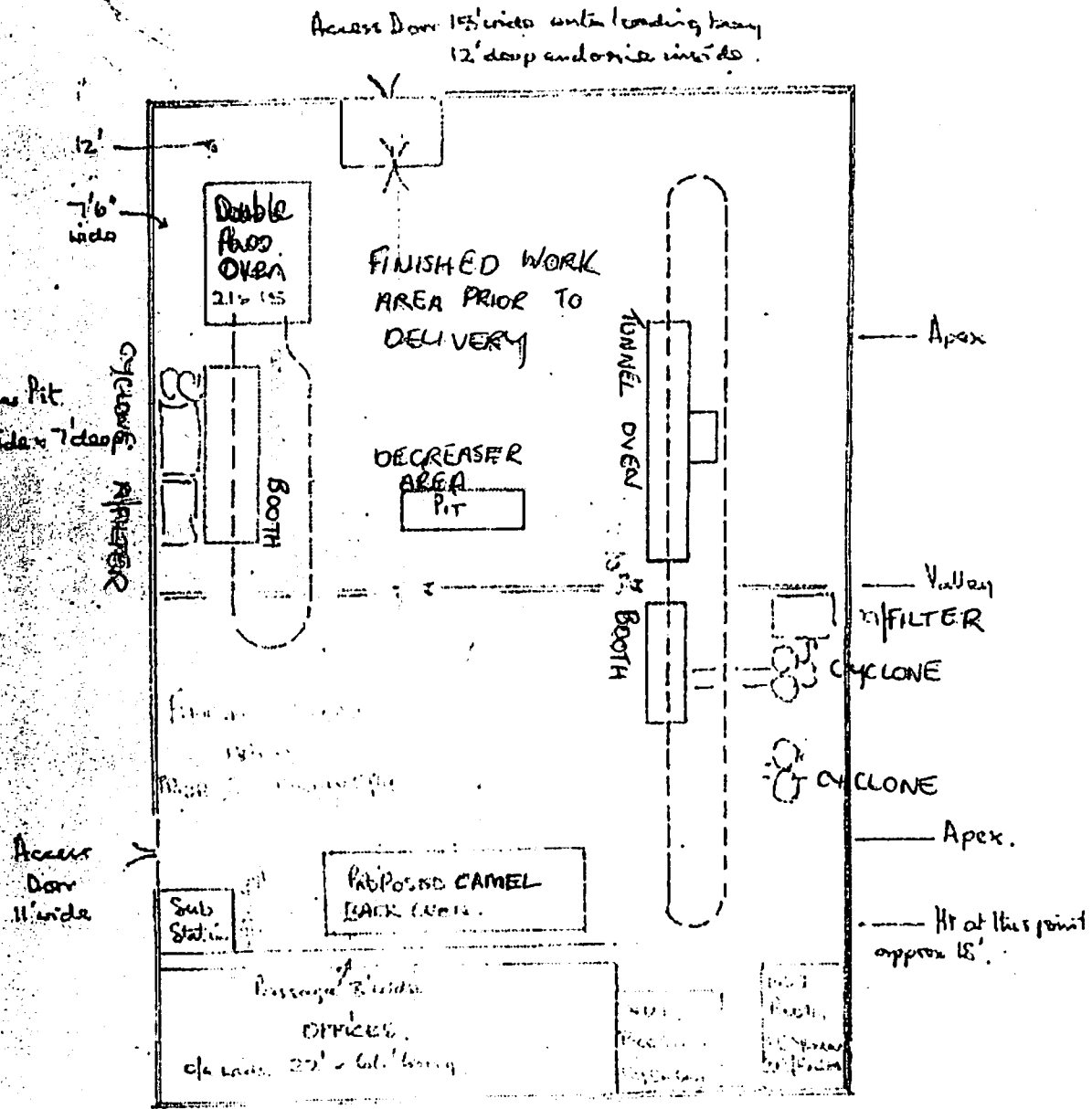
COVENTRY POWDER COATING LTD
UNIT 5, BILTON INDUSTRIAL ESTATE
HUMBER AVENUE, COVENTRY, CV3 1JL

COVENTRY POWDER COATING LTD
UNIT 5, BILTON INDUSTRIAL ESTATE
HUMBER AVENUE, COVENTRY, CV3 1JL

OUR PARKING AREA



OUR PARKING AREA



Overall Building is approx 100' wide x 150' long.

CONVENTRY FOUNDRY CENTERS LTD
Proposed layout of new site

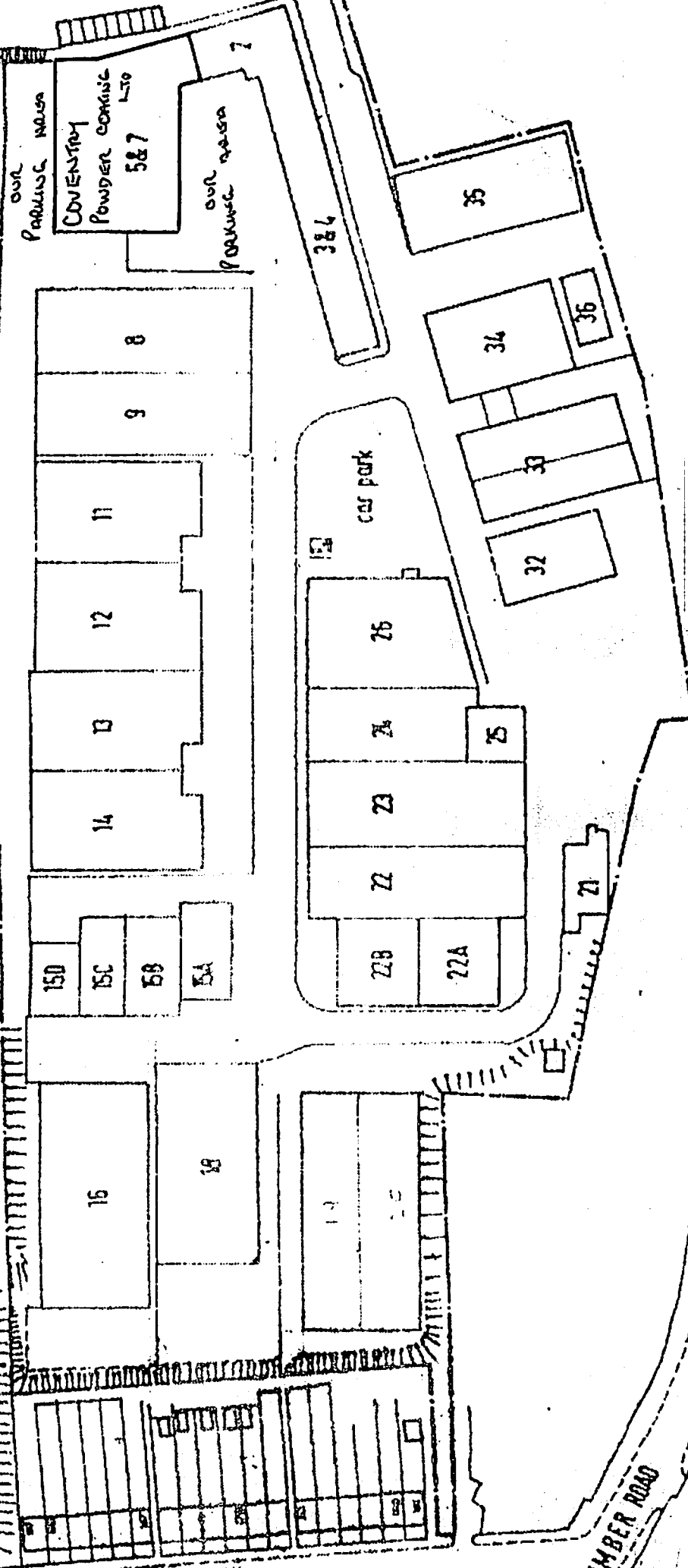
ROSEVILLE LTD

Drawn by Poll 12-12-86.

Updated - 14-1-87

disused railway

HUMBER AVENUE



LOCATION PLAN



SPECIFICATION

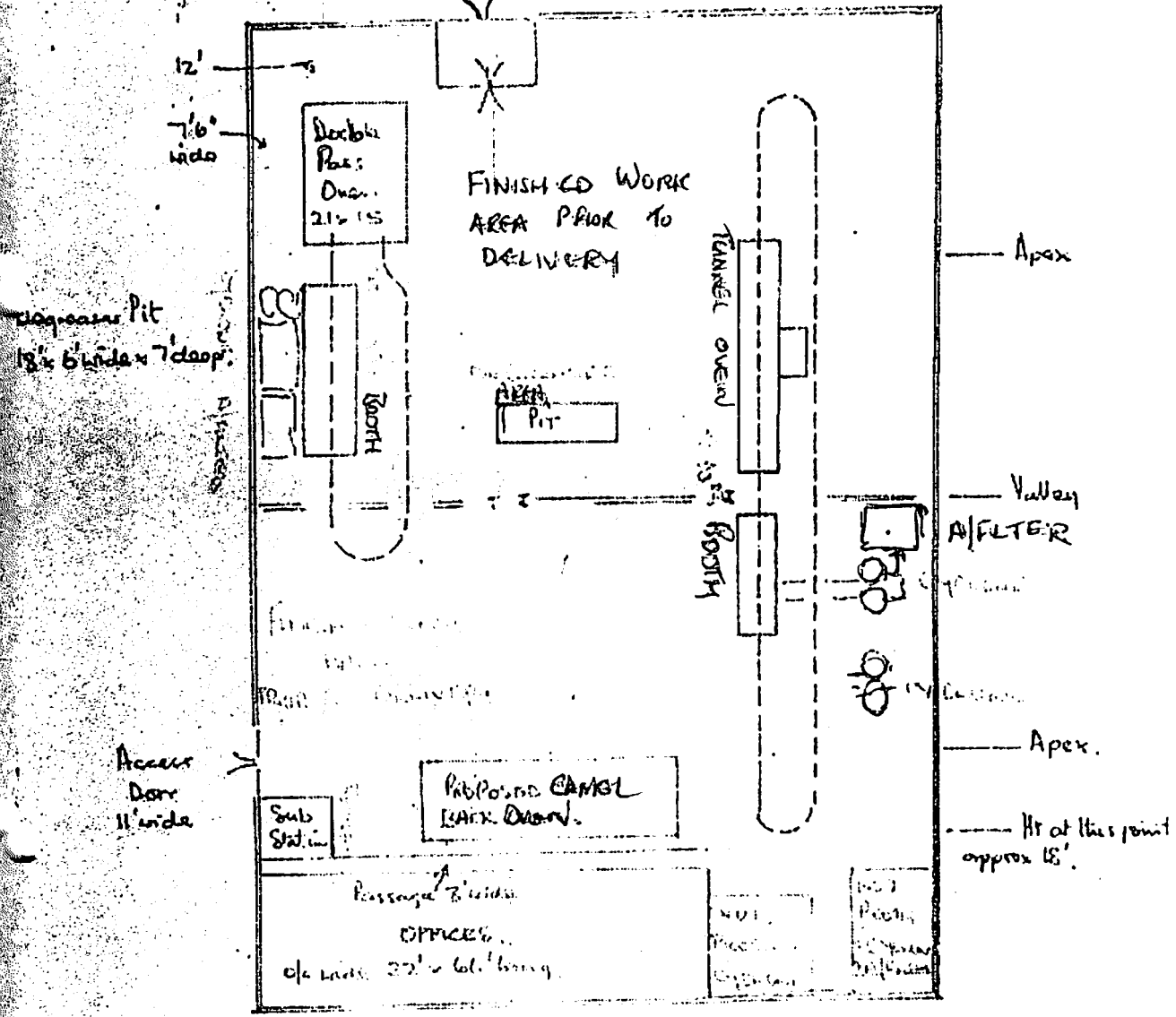
PRODUCT : TRICHLOROETHYLENE

Product Code S390S/01

Properties	Units	Min	Max	Test Methods
Appearance		Clear Colourless		T M 1
Colour (Pt-Co)			15	ASTM D 1209
Density @ 20°C	kg/dm ³	1.452	1.462	ASTM D 1298
Distillation Range	°C	86.5	88.0	BS 580
Residue or Evaporation	% by wt		0.005	BS 580
Alkalinity as Na ₂ CO ₃	% by wt		0.0025	BS 580
Free Chlorine			None	BS 580
Acidity as HCL	% by wt		0.020	BS 580
Acid Acceptance as NaOH	% by wt	0.165		BS 4487

Issue Date: 6.6.91

Access Down 15' into main loading bay
12' deep end on side inside.



Overall Building is
approx 100' wide x 150' long.

CEMENTUM FERRIER COATERS LTD
Proposed layout of new site.

ROSEVILLE LTD
Drawn 12-12-86.
Updated -- 11-1-87.



COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL

Telephone: (0203) 454694 : Fax: (0203) 454476

RE APPLICATION UNDER SECTION 6 OF THE ENVIRONMENTAL PROTECTION ACT 1990;

PRESCRIBED SUBSTANCES USED IN PROCESS;

TRICHLOROETHYLENE.

EPOXY/POLYESTER. POLYESTER. & EPOXY POWDERS,

PRESCRIBED TECHNIQUE.

HEATED TRICHLOROETHYLENE TANK.

SPRAY BOOTHS WITH CYCLONES & AFTER FILTERS.

BATHING PROPOSALS.

TO CONVERT THE TANK TO A 4 WAY LIP EXTRACTION, DUCTED TO A CARBON RECOVERY UNIT. TO REDISTILL THE VAPOUR INTO LIQUOR AND RETURN TO TANK EXCLUDING DISCHARGE TO ATMOSPHERE, ALSO USE OF ENCLOSING LIDS WHEN NOT IN USE.

COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL
Telephone: (0203) 454694 : Fax: (0203) 454476

ENVIRONMENTAL SERVICES DEPT.

OCT 7th 1994

RE AUTHORISATION NO 39. UPGRADING PROPOSALS.

MRS KNIGHT.

ENCLOSED FIND METHOD STATEMENT & PROPOSALS TO BE CARRIED OUT
BY G E H SCIENTIFIC AT THESE WORKS ON NOV 1ST 1994

I THINK THAT ALL RELEVANT INFORMATION IS CONTAINED IN THE
DOCUMENT.

YOURS FAITHFULLY

F H GOGERTY

CO SEC.

Company: EVODE POWDER COATINGS, 95 ASTON CHURCH ROAD, NECHELLS, BIRMINGHAM, B7 5RQ. Tel:021-327 3631

Product: Evode Products with a P90 label

1. Chemical Characterisation

1.1 Polyester:

1.3 Colour:

1.2 Form: Powder

1.4 Odour: Slight - not unpleasant

2. Physical data and safety data:

Tested in accordance with:

2.1 Change in physical state: Softens and able to melt above 50°C

2.2 Density: (23°C) 1.2-1.9 g/cm³

Bulk density: (23°C) 400-1000 kg/m³

2.3 Vapour pressure: Not applicable

2.4 Viscosity: Not applicable

2.5 Solubility in water: Insoluble

2.6 pH value: (at g/lH₂O) Not applicable

2.7 Flash point: Not applicable

2.8 Ignition temperature of a dust/air mixture: 450-600°C

2.9 Explosion limit of a dust/air mixture: Lower - about 40-70 g/m³ (ISO/D188130/4), see also 2.13

2.10 Thermal decomposition:)

2.11 Hazardous decomposition Products:) Not applicable in normal usage, refer to powder supplier

2.12 Hazardous reactions:)

2.13 Further information: Recommended value for powder in air for plant design not to exceed 10g/m³

3. Transport:

IMDG code:	Not applicable	UN No.	Not applicable
ICAO/IATA-DGR:	Not applicable	RID/ADR	Not applicable
ADNR	Not applicable		
Other information:	Powder is acceptable in general for transport without restriction		

4. Instructions and regulations:

4.1 Classification, packaging and labelling of dangerous substances regulations 1984 (Statutory Instrument 1984 No. 1244). Possible risk of irreversible effects. May cause sensitisation by inhalation and skin contact

4.2 Code of Safe Practice "Application of Powder Coatings by Electrostatic Spraying" (Paintmakers Association of Great Britain)

5. Protective measures, storage and handling:

- 5.1 Technical protective measures:** Note the instructions and regulations (see Note 4).
Storage dry and under 25°C.
Avoid heat and avoid direct sun rays.
- 5.2 Personal protective equipment:** Respiratory protection - Approved respiratory protective equipment required where the working powder concentration may exceed the occupational exposure standard of $1\text{mg}/\text{m}^3$.
Wear suitable clothing, gloves and eye/face protection.
Barrier cream may be applied to the hands.
- 5.3 Industrial Hygiene:** The general instructions for hygiene at work to be observed.
- 5.4 Protection against fire and explosion:** Store and handle more than 3m from naked flames. Do not smoke.
As a layer most dust by the action of a flame will melt while self-supporting spread of burning occurs with smokey flames.
- 5.5 Disposal:** Pick up any dust by vacuum cleaner and arrange its disposal as "special waste" in accordance with the local regulations for harmful waste.

6. Measures in case of accidents and fires:

- 6.1 After spillage/leakage/ gas leakage:** Use vacuum cleaner. Do not use a brush in order to avoid the creation of a powder cloud.
- 6.2 Extinguishing media:** Suitable: Water spray mist or foam. Halon, carbon dioxide blanket.
Not to be used: High pressure inert gas e.g. carbon dioxide jet.
- 6.3 First aid:** Eye irritation and skin irritation: wash with plenty of water.
If severe: seek medical attention.
Swallowed: seek medical attention.
Inhaled: if severe, seek medical attention.

-
- 7. Information on Hazardous ingredients:** This product contains triglycidyl isocyanurate (TGIC). The Ames test and the test for chromosomal aberrations in mouse spermatogonial cells have shown that TGIC is mutagenic. In inhalation studies no evidence of mutations, effects on pregnancy outcome, or developing fetus effects were seen at the $2.5\text{mg}/\text{m}^3$ dose level.
Based on these findings a supplier of TGIC recommends an interim permissible internal exposure limit of $0.025\text{mg}/\text{m}^3$ for the raw material.
The original Ames test on powder coatings containing TGIC were negative. Recent animal tests have shown that these materials have caused chromosomal aberrations in mouse spermatogonial cells. In light of these results, TGIC containing powders should be considered as potential germ cell mutagens. The dominant lethal assay for powder coatings containing TGIC was negative. It may be prudent, however, in the absence of any long term testing, to consider TGIC and TGIC containing powders as potential animal carcinogens. Users of this product should take the above information into consideration when establishing their workplace practices.
Persons with a history of asthma, other chronic respiratory complaints or chronic eczema or who have suffered contact allergic dermatitis should not be employed in powder application.
The coating powder referred to in this document is free from any addition of lead compounds.

-
- 8. Information on ecological effects** According to the regulations the application and stoving of coating powders comply with the lists of Occupational Exposure Limits (OEL). The loss of weight at recommended stoving conditions is typically less than 1% by weight of organic materials. Although powder coatings are not soluble in water, coating powder residues should not be deposited where they can affect ground or surface water. (see 5.5 above).



copy - please file.
Thanks Martin

COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL
Telephone: (0203) 454694 : Fax: (0203) 454476

CITY OF COVENTRY
ENVIRONMENTAL SERVICES DEPT

MARCH 1st 1991

MR DAVID PACKARD,
RE OUR TELEPHONE CONVERSATION ON OUR USAGE OF POWDERS
RELEVANT TO THE ENVIRONMENTAL PROTECTION ACT 1990. OUR CONSUMPTION OF ALL TYPES
OF DRY POWDERS HAVE AVERAGED OUT AT 9/10 TONNES PER YEAR, WE DO NOT USE
WET PAINT OF ANY DESCRIPTION,

YOURS FAITHFULLY

F H GOGERTY

COMPANY SECRETARY



I must also point out that ~~deposition~~ will not ~~guarantee~~ the stack will not guarantee the end of all emissions. ~~The dispersion~~ ^{modeling} is a complex science with no guarantee. If it is unsuccessful you may be asked to consider other suitable options.

triglycidyl isocyanurate

TRIGLYCIDYL ISOCYANURATE.

(TGIC) - mutagen.

9 m³ / load.

1.68 - S.G.

$$\begin{aligned} \therefore \text{Quantity} &= 9 \times 1.68 \times 10^{-6} & 1 \text{ l} &= 1.68 \text{ kg} \\ &= \frac{5.04 \times 10^{-4} \text{ m}^3}{0.54 \text{ vol.}} & 0.54 &= 1.68 \times 0.5 \end{aligned}$$

$$5.9 = 0.$$

0.54 L per bag used.

10% loss

~~the~~ I note your comments in relation to raising the exhaust stack to 3m above the gables. I must however express caution in this ^{proposal} ~~solution~~ ^{as it is my view} that dilution is a ~~not~~ the least desirable of solutions to my air problem. Firstly, you need to ensure that all emissions are kept to a minimum, and specific attention must be given to monitoring abnormal non-temperature. I have asked you to supply monitoring data for this process on a monthly basis & I would also suggest that you check the ^{accuracy of} ~~the~~ instrumentation. Once this is achieved you need to convince the local authority that there are no harmful emissions ~~or~~ or emission levels are below set levels. Only after these steps have been successfully engaged would I recommend non ~~deposition~~.

COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL

Telephone: (0203) 454694 : Fax: (0203) 454476

For the attention of Mr Brock.

Mar 16th 1997

Environmental Protection Act 1990 Part 1.

Authorisation No 039 Dated 25 Sept 1995 Application made to Environmental
Dept Coventry City Council September 1992.

Up Grading Programme

(10) Description of process.The processes are exactly the same as in the Authorisation sections
Numbered 1.1 1.2 1.3 1.4 1.5(2) Emission limits & controls.

In the case of the powder coating plants there are no emissions to atmosphere. The extraction system in the booths is taken to a cyclone unit. The powder extracted. The resultant air then passes to an after filter which extracts the "fines". The cleaned air then returns to workshop. There are no ductings or vents outside the workshop.

The jigs on which work is taken through the booths & the curing ovens obviously have to be cleaned to maintain good electrical contacts on the tracks, we physically hammer & break the deposit from the jigs rather than burn them off through an incinerator. so no emissions take place.

The after filters are cleaned & refurbished on a regular basis.

The powders we use are almost all epoxy-polyester & as such do not contain T I C. The manufacturers recommendations on curing times & temperatures are abided by and consequently no offensive odours should be present.

There is no direct venting of oven heat to atmosphere. only vents in the roof to take out excessive heat, if it is found necessary to vent the heat through a chimney, this work will be carried out making a 3 Mt stack pipe on roof. TIME SCALE 1 Year.

- (3) Items 3.1 3.2 3.3 3.4 are carried out as recommended. no change.
- (4) Items 4.1 4.2 are already being carried out. no change
- (5) The waterfreeboard is in good working order. the lip extraction system has recently been modified to conform to COSHH limits. the extraction system outlet pipe on roof has been increased by 1.5 mt. We are seriously thinking about changing the whole system of cleaning from Trichlorethylene to an Aqueous system incorporating a three stage unit using environmentally friendly solvents within the next five years. (APRIL 1999). We have obtained quotes & specifications at the present time are looking for Finance & grants for this project (Total cost around 350,000.00). This is our intention for the future.
- (6) Already dealt with in section (2)
- (7) Already dealt with in section (3)

COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL
Telephone: (0203) 454694 : Fax: (0203) 454476

THE DIRECTOR.

HOUSING & ENVIRONMENTAL SERVICES
 BROADGATE HOUSE
 BROADGATE
 COVENTRY
 CV1 1NH.

APRIL 25th 1995

RE AUTHORIZATION NO 39 & YOUR LETTER & ENFORCEMENT NOTICE DATED
 APRIL 10th 1995.

WE ARE OF THE OPINION THAT WE ARE COMPLYING WITH THE REQUIREMENTS
 OF SECTION 21 OF THE ABOVE ORDER,

THE COMPLAINTS YOU HAVE RECEIVED
 DATE FROM ABOUT A YEAR AGO.

SINCE THEN THE FOLLOWING ACTIONS HAVE
 BEEN TAKEN.

THE CLEANING TANK HAS BEEN REPLACED WITH A MORE MODERN
 APPLIANCE, WHICH IS NOT ONLY MORE EFFICIENT BUT ALSO CUTS DOWN
 VERY CONSIDERABLY THE CONSUMPTION OF SOLVENT, A COOLING TOWER HAS
 BEEN ORDERED & WILL BE IN OPERATION IN APPROX 4/6 WEEKS TO CUT
 DOWN FURTHER THE CONSUMPTION OF SOLVENT & ALSO REDUCE THE ESCAPE
 OF V O Cs.

WE HAVE ALSO TAKEN NOTE OF THE
 CONSULTANTS REMARKS REGARDING THE POSSIBILITY OF "FUGITIVE" PARTICLES
 OF POWDER GETTING DRAWN INTO THE OVEN BURNERS, TO OBTAIN THIS
 POSSIBILITY WE HAVE MADE & FITTED TO ALL THREE OVEN BURNER ORIFICES
 FILTER BANKS TO PREVENT ANY AIRBORNE PARTICLES ENTERING.

ALL AFTERFILTER ASSEMBLIES HAVE HAD
 THE FILTER BAGS RENEWED, THIS HAVING THE EFFECT OF MAKING THE AIR IN
 THE WORKSHOP MUCH CLEANER & THEREFORE LESSENS PARTICLES FLOATING
 AROUND AS STATED IN THE ABOVE PARAGRAPH,

I WOULD ASK YOU TO LOOK
 AGAINST THE ENFORCEMENT NOTICE REQUIRING US TO FIT CONSTANT
 TEMPERATURE INDICATOR RECORDERS TO ALL OUR OVENS, THIS IS QUITE
 UNNECESSARY AS WE HAVE VISUAL TEMPERATURE INDICATORS ON ALL OVENS
 WHICH WE MONITOR REGULARLY TWO & THREE TIMES PER DAY, THE TYPE
 & COLOUR OF THE POWDER WE ARE USING AT ANY PARTICULAR TIME
 INDICATES THE CORRECT TEMPERATURE & TIME SPELL IN THAT PARTICULAR
 OVEN, EXPERIENCE WILL QUICKLY TELL US IF WE ARE ERRING IN THIS ASPECT
 IF WE OVERBAKE EVEN TO A SMALL AMOUNT THE COLOUR WILL CHANGE
 IF WE UNDERBAKE THEN THE ADHESION OF POWDER TO OBJECT IS VERY
 POOR INDEED & WILL FLAKE OFF.

OUR OVENS ARE CHECKED FOR EFFICIENCY
 BY THE POWDER MANUFACTURERS OFTEN, & IN FACT WILL BE CHECKED WITHIN
 THE NEXT WEEK, RECORDS OF THESE WILL BE KEPT.

I ENCLOSE CORRESPONDENCE FROM ONE OF
 THE LEADING POWDER MANUFACTURERS, WHO HAVE ALREADY SPOKEN TO MR BROCK
 & HAVE EXPRESSED THEIR WILLINGNESS TO HAVE A MEETING WITH ALL
 PARTIES CONCERNED AT THESE WORKS TO ATTEMPT TO RESOLVE THE
 APPARENT PROBLEM TO THE SATISFACTION OF EVERYONE.

WE OURSELVES WILL DO EVERY THING
 POSSIBLE WITHIN THE PRINCIPLES OF BATNEEC

COVENTRY POWDER COATING LTD

5 BILTON INDUSTRIAL ESTATE : HUMBER AVENUE : COVENTRY CV3 1JL

Telephone: (0203) 454694 : Fax: (0203) 454476

For the attention of Mr Brock.

Mar 16th 1997

Environmental Protection Act 1990 Part 1.
 Authorisation No 039 Dated 25 Sept 1993 Application made to Environmental
 Dept Coventry City Council September 1992.

Up Grading Programme

(10) Description of process.

The processes are exactly the same as in the Authorisation sections
 Numbered 1.1 1.2 1.3 1.4 1.5

(2)

Emission limits & controls.

In the case of the powder coating plants there are no emissions to atmosphere. The extraction system in the booths is taken to a cyclone unit. The powder extracted. The resultant air then passes to an after filter which extracts the "fines". The cleaned air then returns to workshop. There are no ductings or vents outside the workshop.

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The after filters are cleaned & refurbished on a regular basis.

The powders we use are almost all epoxy-polyester & as such do not contain T I G S. The manufacturers recommendations on curing times & temperatures are abided by and consequently no offensive odours should be present.

There is no direct venting of oven heat to atmosphere. Only vents in the roof to take out excessive heat, if it is found necessary to vent the heat through a chimney, this work will be carried out making a 3 Mt stack pipe on roof. TIME SCALE 1 Year.

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(6) Already dealt with in section (2)

(7) Already dealt with in section (3)



Health & Safety
Executive

*Martin
Brock*

Area Director: P WARD

Chief Environmental Health Officer
Coventry Environmental Services Dept
Broadgate House
Broadgate
COVENTRY CV1 1NH

Your Ref: CI/IP/MPB

Our Ref: EPA/EM/07/502/92

14 OCT 1992

Dear Sirs

ENVIRONMENTAL PROTECTION ACT 1990 PART 1: AUTHORISATION FOR POWDER COATING PROCESS

Thank you for consulting the Health and Safety Executive about the above application for coating process submitted by Coventry Powder Coatings Ltd, Unit 5, Bilton Industrial Estate, Coventry. Details of the application are noted for our records.

This process involves the use of, or may give rise to substances likely to be subject to the Control of Substances Hazardous to Health Regulations 1988 (COSHH). Occupational exposure limits for a range of substances have been assigned under COSHH. Details of these standards are given in the current edition of Guidance Note EH40, published annually by HMSO.

I confirm that HSE is responsible for enforcing health and safety legislation at these premises. In our assessment of this application we have not identified significant elements of conflict or ambiguity with health and safety at work issues. However, if your consideration of the application suggests that these conflicts might develop then please let me know. I would be pleased to discuss these with you before you make a determination.

It is suggested that the following text may be a useful reminder to the applicant and could be included in any covering letter sent with the authorisation. "This authorisation is issued under Part 1 of the Environmental Protection Act 1990. The responsibilities you have under legislation for health, safety and welfare in the workplace remain in force."

When the authorisation is issued I would be grateful if you would forward a copy to me for retention, so that it may be consulted at any future visit to the premises.

Yours faithfully


E I MARSHALL
HM Principal Inspector of Factories

HUMBER AVENUE

disused railway

oil
parking house

CONVENTRY
POWDER COMING
587 LTO

oil
parking house

384

35

34

36

33

32

car park

12

26

24

25

23

22

21

15D

15C

15B

15A

22B

22A

16

18

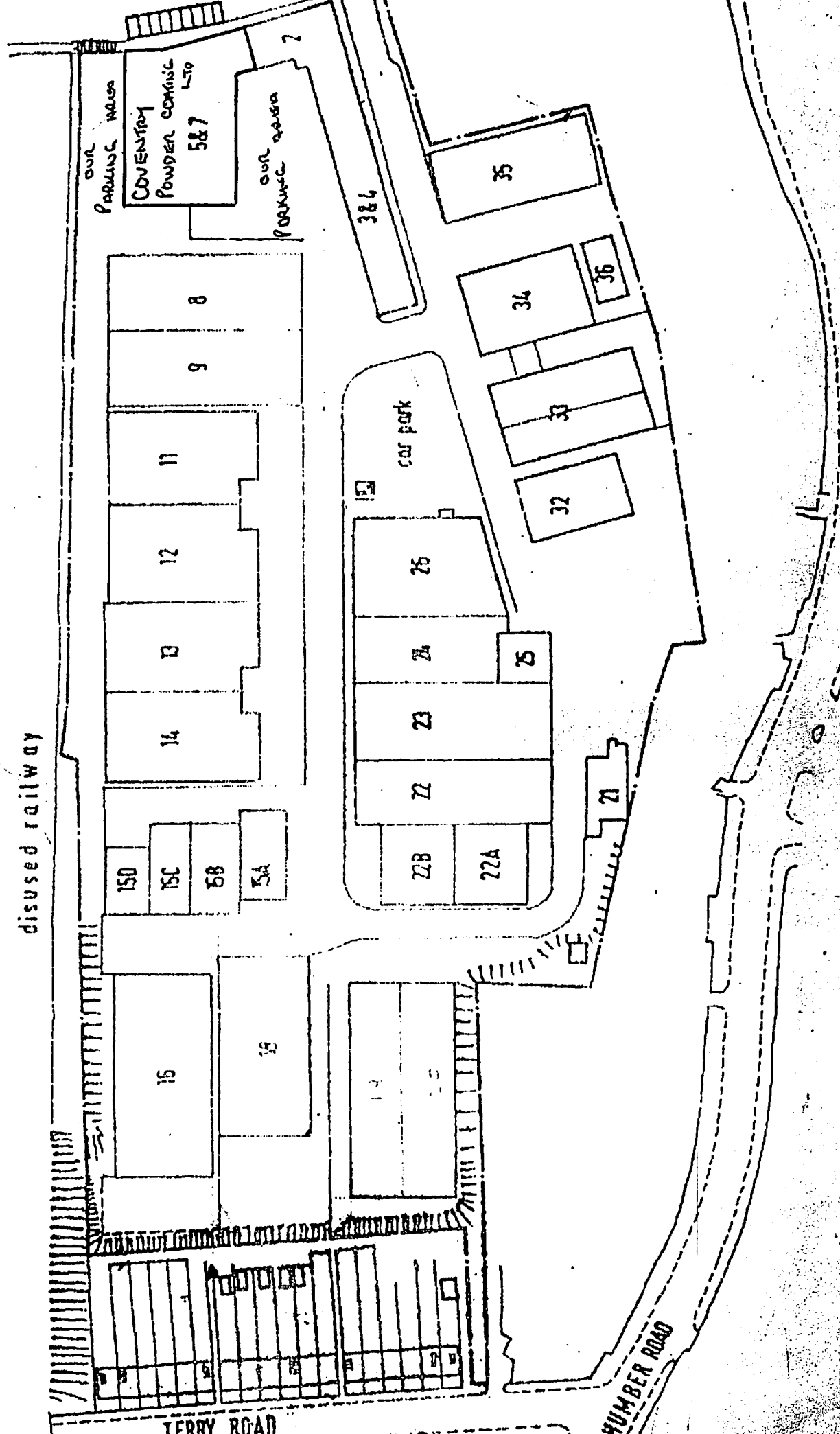
14

15

TERRY ROAD

HUMBER ROAD

LOCATION PLAN





Becker Powders Limited

Health & Safety Data Sheet, No1

Date: 19.3.91

Commercial product name & ref: EPOL 89573CIT Colour: Brown, 08B29 Epoxy
poly S.G. Tex

1. Chemical Type Classification

- 1.1 Epoxy..... 1.2 Epoxy polyester..... 1.3 Other.....
- 1.4 Form; Free flowing dry powder with slight not unpleasant odour.

2. Physical & Safety data.

- 2.1 Change in physical state: Softens and melts above 50°C
- 2.2 Density (23°C): 1.1 - 1.9g/cm³
Bulk density(23°C): 400-1000 kg/m³
- 2.3 Vapour pressure: not applicable.
- 2.4 Viscosity: not applicable.
- 2.5 Solubility in water: insoluble.
- 2.6 pH value: not applicable.
- 2.7 Flash point: not applicable.
- 2.8 Ignition temperature of dust/air mixture: 450 - 600°C.
- 2.9 Lower Explosion Limit of dust/air mixtures: 40 - 70g/m³(ISO/DIS 8130/4)
(see also 2.13)
- 2.10 Thermal decomposition:.....>
> *Not applicable in normal use.*
- 2.11 Hazardous decomposition products:....>
> *If in doubt refer to supplier.*
- 2.12 Hazardous reactions:.....>
- 2.13 Recommended level for powder in plant air for design 10g/m³ MAX.

3. Transport; IMDG code:n/a UN No:n/a ICAO/IATA-DGR:n/a RID ADR:n/a ADNR:n/a

Comment: Powder coatings are generally accepted for transport without restriction.

4. Instructions and Regulations:

- 4.1 Safe powder coating (CEPE 3rd edition).
- 4.2 Classification, packaging and labelling of dangerous substances regulations 1984 (Statutory instrument 1984 No 1244).
- 4.3 Code of Safe Practice "Application of powder coatings by electrostatic spraying" (Paintmakers Association of Great Britain).

5. Protective measures and storage:

- 5.1 Technical protective measures: Note the instructions and regulations (see note 4)
Store dry and below 25°C.
Avoid and direct sun.
- 5.2 Personal protective equipment: Respiratory protection: normally not required, but dust masks are recommended where powder concentrations exceed 10mg/m³.
Hand protection: None normally. If necessary barrier cream or suitable gloves are recommended.
Eye protection: None normally. If necessary

Registered Office:
Becker Powders Limited,
Landywood Lane,
Cheslyn Hay, Walsall,
West Midlands. WS6 7AL

Postal Address:
Whessoe Road,
Darlington,
Co. Durham, DL3 0XH

Telephone:
(0325) 355371
Telex: 58144
Telefax: 0325 380092
Registered in England No. 1074133

Subsidiary of:
AB Wih. Becker
Lövholmsgränd 12,
S-11783 Stockholm,
Sweden.

- 5.3 Industrial hygiene: protective glasses are recommended. The general instructions for hygiene at work to be observed.
- 5.4 Protection against fire and explosion: Store and handle more than 3m from open fires. Do not smoke. As a layer most dusts by the action of a flame will melt while self-supporting spread of burning occurs with smokey flames.
- 5.5 Disposal: Pick up and arrange disposal without creating dust in accordance with local authority regulations as general rubbish.

6. Measures in case of accidents and fires:

- 6.1 After spillage/leakage/gas leakage: Use vacuum cleaner. Do not use brush in order to avoid the creation of a powder cloud.
- 6.2 Extinguishing media: Use-Water spray or foam, Halon or CO2 blanket. DO NOT Use-High pressure inert gasses such as CO2 jet
- 6.3 First aid: Eye and skin irritation-wash with plenty of water. If severe seek medical attention. If swallowed-seek medical attention. If inhaled-seek medical attention.

-
7. Information on Toxicity: Powder paints are inert dusts. According to the listed information the dust limit value as ultra fine dust concentration in the breathing zone, should not exceed 5-8mg/m³ (Occupational Exposure Limit issued by the Health & Safety Executive is 5mg/m³ for respirable dust). Allergic persons and workers with difficulty in breathing should not be employed in powder application. These powders are free of any addition of lead compounds.

Declaration according to the Dangerous Substances Regulations 1984 - *NONE*.

-
8. Information on Ecological effects: According to regulations the application and stoving of coating powders comply with the lists of Occupational Exposure Limits. The loss of weight at recommended stoving conditions is typically less than 1% of organic materials. The extract of a typical coating powder with rainwater shows that a deposit can be made without substantial impairment of ground or surface water.

9. Further Information:

10. Address:

Units 7/8 Woking Business Park, Albert Drive, Woking, Surrey, GU21 5JY. Tel. 0483 727565

Goodlass Road, Speke, Liverpool, L24 9HJ. Tel. 051 4864212

Whessoe Road, Darlington, Co Durham, DL3 0XH. Tel. 0325 355371

This information and recommendations are given in good faith but are not guaranteed. No liability is accepted.

Beckers



EPOXY

Becker Powders Limited

Health & Safety Data Sheet No1

Date 19.3.91

Commercial product name & ref: EP 1582 SCIT

Colour Black Epoxy Semi Glass Texture

1. Chemical Type Classification

- 1.1 Epoxy,..... 1.2 Epoxy polyester,..... 1.3 Other,.....
1.4 Form: Free flowing dry powder with slight not unpleasant odour.

2. Physical & Safety data.

- 2.1 Change in physical state: Softens and melts above 50°C
2.2 Density (23°C): 1.1 - 1.9g/cm³
Bulk density(23°C): 400-1000 kg/m³
2.3 Vapour pressure: not applicable.
2.4 Viscosity: not applicable.
2.5 Solubility in water: insoluble.
2.6 pH value: not applicable.
2.7 Flash point: not applicable.
2.8 Ignition temperature of dust/air mixture: 450 - 600°C.
2.9 Lower Explosion Limit of dust/air mixtures: 40 - 70g/m³(ISO/DIS 8130/4)
(see also 2.13)
2.10 Thermal decomposition:.....>
> *Not applicable in normal use.*
2.11 Hazardous decomposition products:....>
> *If in doubt refer to supplier.*
2.12 Hazardous reactions:.....>
2.13 Recommended level for powder in plant air for design 10g/m³ MAX.

3. Transport:IMDG code;n/a UN No;n/a ICAO/IATA-DGR;n/a RID ADR;n/a ADNR;n/a

Comment: Powder coatings are generally accepted for transport without restriction.

4. Instructions and Regulations:

- 4.1 Safe powder coating (CEPE 3rd edition),
4.2 Classification, packaging and labelling of dangerous substances regulations 1984
(Statutory instrument 1984 No 1244),
4.3 Code of Safe Practice "Application of powder coatings by electrostatic spraying"
(Paintmakers Association of Great Britain).

5. Protective measures and storage:

- 5.1 Technical protective measures: Note the instructions and regulations (see note 4)
Store dry and below 25°C.
Avoid and direct sun.
5.2 Personal protective equipment: Respiratory protection: normally not required, but
dust masks are recommended where powder
concentrations exceed 10mg/m³.
Hand protection: None normally. If necessary barrier
cream or suitable gloves are recommended.
Eye protection: None normally. If necessary

Registered Office:
Becker Powders Limited,
Landywood Lane,
Cheslyn Hay, Walsall,
West Midlands, WS6 7AL

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Whessoe Road,
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Telefax: 0325 380092
Registered in England No. 1074133

Subsidiary of:
AB Wih. Becker
Lövholmsgränd 12,
S-11783 Stockholm,
Sweden.

Directors: A. Roberts, S.H. Thompson, J.G. Andon, G.G. Longstaff, W.S. Rising,
Swedish: K. Mollberg, L. Forsberg (Group Chief Executive)

- 5.3 Industrial hygiene: protective glasses are recommended, The general instructions for hygiene at work to be observed.
- 5.4 Protection against fire and explosion: Store and handle more than 3m from open fires. Do not smoke, As a layer most dusts by the action of a flame will melt while self-supporting spread of burning occurs with smokey flames.
- 5.5 Disposal: Pick up and arrange disposal without creating dust in accordance with local authority regulations as general rubbish.

6. Measures in case of accidents and fires:

- 6.1 After spillage/leakage/gas leakage: Use vacuum cleaner. Do not use brush in order to avoid the creation of a powder cloud.
- 6.2 Extinguishing media: Use-Water spray or foam, Halon or CO2 blanket, DO NOT Use-High pressure inert gasses such as CO2 jet
- 6.3 First aid: Eye and skin irritation-wash with plenty of water. If severe seek medical attention, If swallowed-seek medical attention, If inhaled-seek medical attention.

-
7. Information on Toxicity: Powder paints are inert dusts, According to the listed information the dust limit value as ultra fine dust concentration in the breathing zone, should not exceed 5-8mg/m³ (Occupational Exposure Limit issued by the Health & Safety Executive is 5mg/m³ for respirable dust), Allergic persons and workers with difficulty in breathing should not be employed in powder application, These powders are free of any addition of lead compounds.

Declaration according to the Dangerous Substances Regulations 1984 - *NONE*,

-
8. Information on Ecological effects: According to regulations the application and stoving of coating powders comply with the lists of Occupational Exposure Limits, The loss of weight at recommended stoving conditions is typically less than 1% of organic materials. The extract of a typical coating powder with rainwater shows that a deposit can be made without substantial impairment of ground or surface water.

9. Further Information:

10. Address:

Units 7/8 Woking Business Park, Albert Drive, Woking, Surrey, GU21 5JY. Tel. 0483 727565

Goodlass Road, Speke, Liverpool, L24 9HJ. Tel. 051 4864212

Whessoe Road, Darlington, Co Durham, DL3 0XH. Tel. 0325 355371

This information and recommendations are given in good faith but are not guaranteed. No liability is accepted.

Your Reference :
Our Reference : CI/IP/MPB
Please ask for : Mr M Brock
Direct Dialling No: 831857
Date : 5th October 1992



ENVIRONMENTAL SERVICES DEPARTMENT

Howard T. Farrand,
Director of Environmental Services,
Broadgate House,
Broadgate,
Coventry, CV1 1NH.

Telephone : 0203 83 33 33
Telex : 265451 (MONREF G)
Attention ENDO42
Telecom Gold Mailbox: 76 : ENDO42
Fax : 0203 831851

Coventry Powder Coating Ltd
Unit 5
Bilton Industrial Estate
Humber Avenue
COVENTRY
CV3 1JL

Dear Sir

ENVIRONMENTAL PROTECTION ACT 1990

ADDRESS: Coventry Powder Coatings Ltd, Unit 5, Bilton Industrial Estate, Coventry

I refer to the above and your application for authorisation of a Schedule B process.

This application has now been deemed to be duly made and your cheque received earlier will now be processed.

The Environmental Protection (Applications, Appeals and Registers) Regulations 1991 now require that you advertise your application in the local newspaper for 1 week and I have enclosed an example of a possible format which you may utilise. A copy of this advertisement should be sent to this department.

If you have any queries regarding this matter then please do not hesitate to contact me.

ENC.

Yours sincerely

[Redacted signature]

M P Brock
Senior Environmental Health Officer

mon/tr05101mpb

Protecting Our City

To Environmental Services - Admin.



City of
Coventry

From Pollution

memo

Ext1857..... Date5th October 1992.....

Our Ref ...*MPH* CI/IP/MPH Your Ref

ENVIRONMENTAL PROTECTION ACT 1990

ADDRESS : Coventry Powder Coatings Ltd, Unit 5, Bilton Industrial Estate, Coventry

I refer to the above and Cheque No.000525 received by this Department in conjunction with the application.

This application is now deemed to be correct and I can now authorise you to process this cheque accordingly.

If you have any queries regarding this please do not hesitate to contact me.

mon/tr05101mpb

Done : 6-10-92

NO : 7247

CI/IP/MPB
Mr M Brock
831857
5th October 1992

Coventry Powder Coating Ltd
Unit 5
Bilton Industrial Estate
Humber Avenue
COVENTRY
CV3 1JL

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ENVIRONMENTAL PROTECTION ACT 1990
ADDRESS: Coventry Powder Coatings Ltd, Unit 5, Bilton Industrial
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Yours sincerely



M P Brock
Senior Environmental Health Officer

mon/tr05101mpb

1. DESCRIPTION OF PROCESS

- 1.1 This authorisation is for the cleaning, degreasing and powder coating of metal products, as described in the Environmental Protection (Prescribed Processes and Substances) Regulations 1991, SI472, Section 6.5 Part B paragraph (a) within the process boundary outlined in red on the attached Plan numbered 1 and specifically relates to the processes outlined below.
- 1.2 The delivery and storage of dry powder paint and cleaning solvents.
- 1.3 The cleaning and degreasing of metal products in a trichloroethylene bath.
- 1.4 The electrostatic coating of metal products with powder paint in the G.E.G spraybooth, Volstatic spraybooth and 2 ancillary mobile spraybooths, and the subsequent oven curing in the Double Pass, Tunnel and Camel Back Ovens.
- 1.5 Any change to the above descriptions must not take place without the prior consent from this Authority.

2. EMISSION LIMITS AND CONTROLS

- Deleted by variation* 2.1 All emissions to air shall be free from offensive odour outside the process boundary, as perceived by the Local Authority Inspector.
- 2.2 There shall be no emissions of particulate matter noticeable beyond the process boundary.
- 2.3 All pollution concentrations shall be expressed at standard conditions of 273k and 101.2k pa without correction for water vapour content.
- 2.4 The introduction of dilution air to achieve the emission concentration limits in this authorisation is not permitted. Exhaust flow rates should be consistent with the efficient capture of emissions.

3. MONITORING SAMPLING AND MEASUREMENT OF EMISSIONS

- Deleted by variation* 3.1 An olfactory assessment of emissions of volatile organic compounds shall be carried out at least once a day from the position marked X on the plan numbered 1.
- Deleted by variation* 3.2 The results of monitoring to comply with 3.1 shall be recorded in a log book. This shall include the date, time, wind strength and direction, the name of the observer and an assessment of the emissions. This log book shall be retained, on site, for a minimum of four years.

Deleted by variation

3.3 Any adverse results from the monitoring required in 3.1 shall be followed up immediately by the investigation of the cause of the emission and any corrective action taken, with this also being recorded in the log book.

3.4 A detailed record shall be kept of all organic solvents used in the prescribed processes. This shall include the quantity of chlorinated solvent used for metal cleaning and degreasing. This inventory shall be forwarded to the local Authority at least once every six months and shall include a determination for the total organic solvent usage for that period.

4. MATERIALS HANDLING

4.1 All powder coating materials shall be stored in a sealed container to prevent fugitive particulate emissions.

4.2 All full, partially full and nominally empty containers which hold or have held material which contain organic solvents must have lidded containers.

5. METAL DEGREASING AND CLEANING

5.1 The water cooled freeboard of the trichloroethylene tank shall be in working order when this tank is in operation.

6. CHIMNEYS, VENTS AND PROCESS EXHAUSTS

Repair

6.1 Emissions from the spraying of coatings in the G.E.G spraybooth, Volstatic spraybooths shall pass through the cyclones and secondary bag filters before venting back into the workshop.

6.2 Emissions from the curing of coatings in the Double Pass, Tunnel and Camel Back Ovens shall only be emitted to atmosphere via the proper bleed off exhaust.

7. GENERAL OPERATIONS

7.1 Any mechanical malfunction or spillage of material shall be attended to and remedied as soon as possible. Any incident likely to give rise to atmospheric emissions shall be noted in detail in the process log book as described in 3.2.

7.2 Any incidents likely to give rise to emissions which may have an impact on neighbouring residents shall be reported immediately to this Authority.

7.3 A copy of this authorisation shall be displayed so it can be conveniently read by persons having duties which are or maybe affected by this authorisation.

7.4 The operator shall supply, to this Authority, on demand and without charge, a copy of all or part of the monitoring records kept in accordance with this authorisation.

8. UPGRADING OF THE PROCESS

8.1 No later than six months from the date of this authorisation, a programme for upgrading the process shall be submitted to this Authority. The upgrading programme shall have regard to the Secretary of State's Guidance:

Coating of Metal and Plastic PG 6/23 (92).

8.2 Any proposed methods for non-continuous emission sampling for the purposes of complying with the authorisation must be agreed in writing with this Authority.

epa_B_/covpowcoat

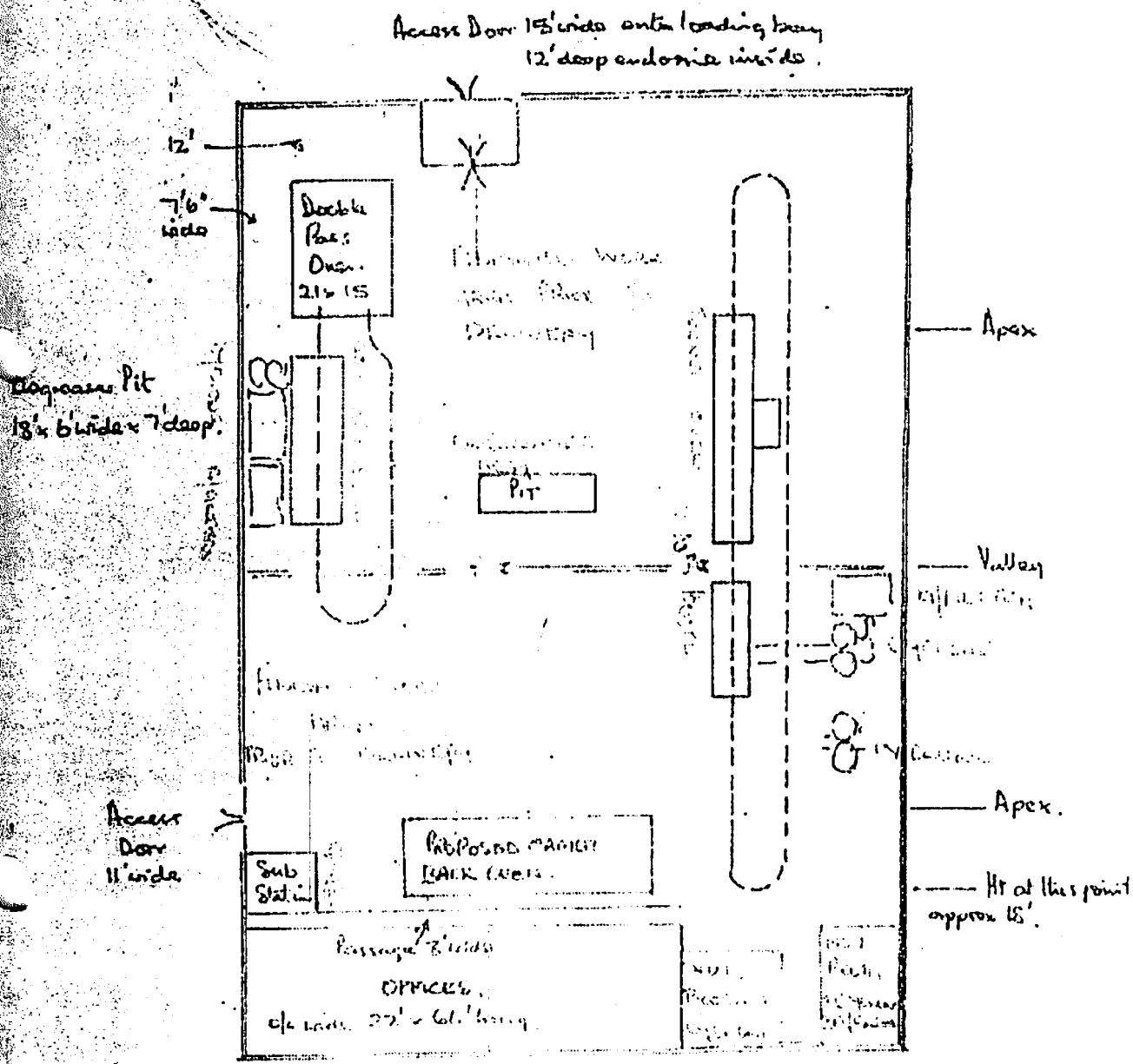
SUPPLEMENTARY NOTES

THESE NOTES ARE 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) preventing the release of prescribed substances into the air or where that is not practicable by such means, for reducing the release into the air of such substances to the minimum and for rendering harmless any such substances that 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 Environmental Protection Department, Tel 831810 during office hours, 832222 outside office hours.
3. You will note that condition 8.1 of the authorisation requires you to submit a schedule of works for approval by this Authority, within six months of the issue date. This schedule must describe the procedures and improvements that you intend to implement in order to meet the requirements of the relevant guidance note referenced within the authorisation. From observations and inspections of the process I would recommend that the following topics are specifically included.
 - a) The results of the initial calculation of solvent loss from the degreasing tank in any 8 hour period together with proposals of methods to reduce solvent loss to below 1%.
 - b) The proposed frequency of further non-continuous emission sampling, from the degreasing tank, taking into account the results of the initial monitoring exercise.
 - c) The increase in height of the final discharge points from the Double Pass, Tunnel and Camel Back Ovens and the trichloroethylene degreasing tank according to the requirements of the Process Guidance Note. This should include a calculation of the proposed ground level pollutant concentration around the prescribed process.

epa_B_auth/covpowcoat

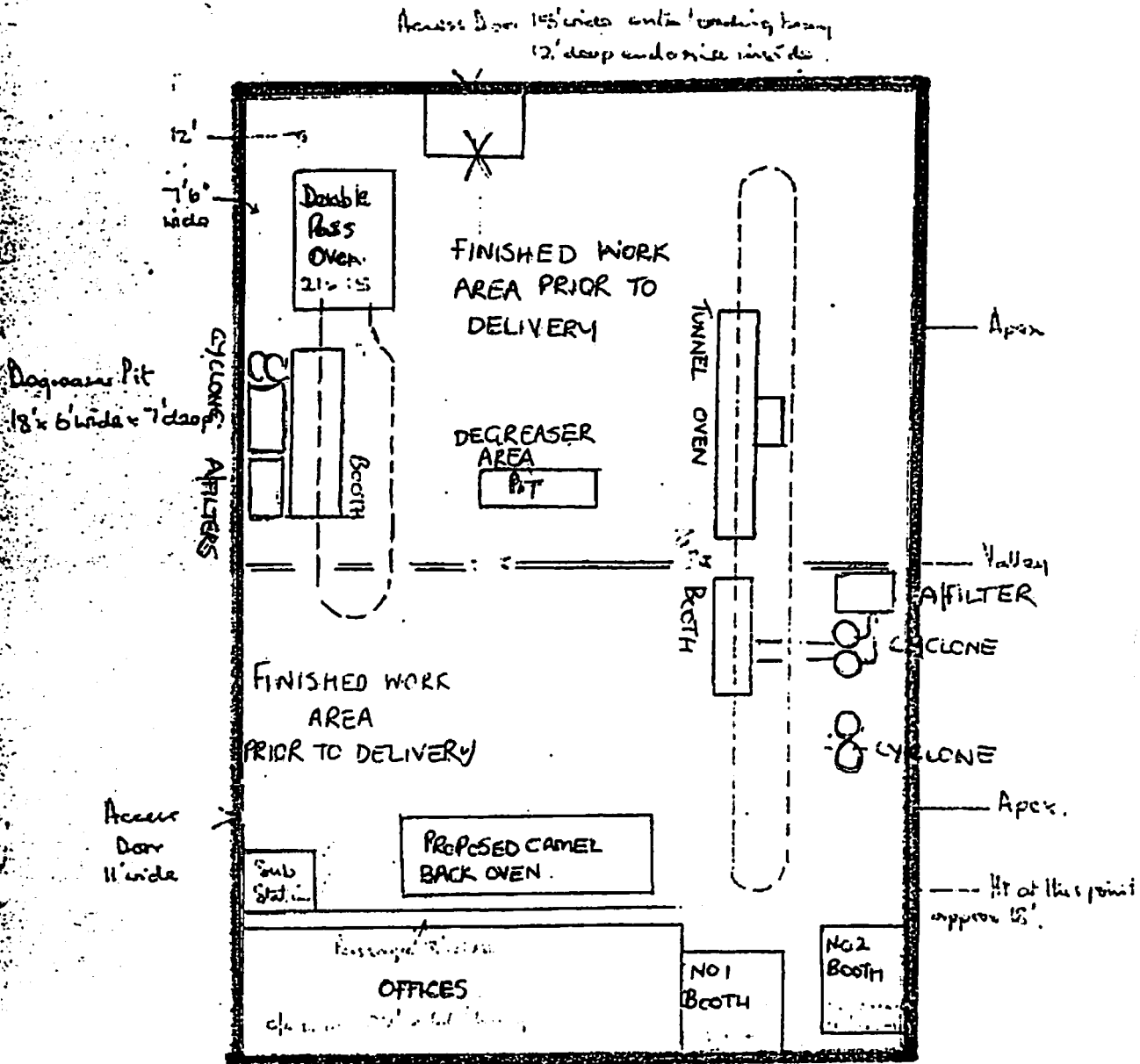


Overall Building is approx 100' wide x 150' long.

COVENTRY POWER GRATES LTD
Proposed layout of new site.

REYNOLD LTD
Disc Roll 12-12-86.
Updated - 14-1-87.

PLAN NUMBER 1



Overall height of building
approx 15' at this point

CONVENTRY POWDER COATERS LTD
Proposed layout of new site

CREWELL LTD
Bull Mill - 12-11-86
Updated - 12-11-87