

Torfaen County Borough Council



Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010 As Amended

Part B Permit for: Fairwater Clean Centre
6 Fairwater Square
Fairwater
Cwmbran
Torfaen
NP44 4TA

Permit Reference TCBC EPA B33

DRY CLEANING INSTALLATION

Address for Communication:

**Planning and Public Protection Department
Ty Blaen Torfaen
Panteg Way
New Inn
Pontypool
Torfaen
NP4 0LS**

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Introductory Note

This introductory note does not form part of the Permit

Introduction

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 (S.I. 2010 No. 675) (“the EP Regulations”) to operate an installation carrying out one or more of the activities listed in Part 2 to Schedule 1 of those Regulations, to the extent authorised by the Permit.

The Permit includes conditions that have to be complied with. It should be noted that the operator must use the best available techniques for preventing or, where that is not practicable, reducing emissions from all aspects of the installation including those which are not subject to a specific condition.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated, and decommissioned.

Brief description of the installation regulated by this permit

This activity includes the dry cleaning of products and garments using organic solvents, namely perchloroethylene (PER). Products to be dry cleaned are received at the installation, ticketed and checked for loose items. They are then sorted by colour and material to enable optimum loads to be made up which will minimise solvent consumption. After sorting of the products, stains which may require additional treatment are treated with spot cleaning solutions at a designated table.

The products to be cleaned are then weighed and taken to the dry cleaning machine. There is just the one dry cleaning machine and this uses PER. The products are then carefully loaded into the machine and the door of the machine is closed and not opened until the cycle has finished.

During the drying cycle of the machine, water which was present in the garments to be cleaned and within the atmosphere of the machine is condensed out within the water separator. This is subjected to further secondary separation to remove any small quantities of dry cleaning solvent which may be still present in the water.

After a number of number of cleaning operations the residues which collect in the still of the dry cleaning machine are removed by pumping into a sealed holding container. The residues are then removed for disposal by a licensed waste contractor.

Talking to us

To speak to an officer concerned with this permit please contact Peter Oates on 01633 647290 or peter.oates@torfaen.gov.uk.

In the event of an emergency occurring outside of normal office hours you should contact 01495 762200 and ask for the Environmental Health Officer.

Confidentiality

The Permit requires the Operator to provide information to the Council. The Council will place the information onto the public register in accordance with the requirements of the EP Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Council to have such information withheld from the register as provided in the EP Regulations. To enable the Council to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations of the Permit

This Permit may be varied in the future. Should a variation become necessary, then a variation notice will be served upon the operator under EP Regulation 20 (1) which specifies the variation and the date or dates on which the variation is to take place. In addition to this, the operator may apply to the Regulator for variations in the Permit should the necessity arise. The Status Log within the Introductory Note to any such variation will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made in accordance with Regulation 24 (2) of the EP Regulations.

Transfer of the Permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 21 (1) of the EP Regulations. A transfer will be allowed unless the Council considers that the proposed holder will not be the person who will have control over the

operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

Changes to the Permit

Any change in the activities covered by this permit must be notified to the Council for approval at least 14 days prior to implementation.

Offences

Regulation 38 of the EP Regulations defines the offences that may arise as a result of non-compliance with the regulations or this permit. You are advised to be familiar with this regulation since a person guilty of an offence could be fined up to £50,000 and/or be subject to imprisonment.

Enforcement

If the conditions attached to this Permit are not adhered to, then an enforcement notice may be served upon the operator. This notice will specify the contraventions and the steps to be taken to remedy the situation. It is an offence not to comply with such an Enforcement Notice (see above).

Revocation

The Permit may be revoked at any time by the enforcing Local Authority. This will particularly be considered if fees are not paid or enforcement notices are not complied with.

Suspension

The Regulator has a duty to serve a suspension notice if it is considered that there is an imminent risk of serious pollution to the environment, whether or not there has been a breach of the Permit.

Appeals

Any person who has been refused a Permit, is aggrieved by the conditions attached to the Permit, has been refused a variation of a Permit on application or has had a Permit revoked may appeal against the decision of the Regulator to the Secretary of State. Guidance on the appeals procedure is contained in Chapter 30 of the Environmental Permitting General Guidance Manual which has been issued by DEFRA and can be found at www.defra.gov.uk/environment

Powers of entry

Any duly authorised officer of the Regulating Authority may enter premises to inspect an activity at all reasonable times.

On entry of the premises the officer also has powers to take any equipment or materials with him for which the power of entry is being exercised, to make such examination and investigation as may be necessary, to take such photographs, measurements or samples and seek any other assistance necessary to assist him in his duties.

Permit

Environmental Permitting (England & Wales)
Regulations 2010 (as amended)

Permit Number: TCBC EPA B33

Torfaen County Borough Council (the Regulator) (i) in exercise of its powers under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 (S.I. 2010 No. 675)(as amended) hereby permits

("the Operator") (ii)

Whose registered office is; 6 Fairwater Square
Fairwater
Cwmbran
Torfaen
NP44 4TA

To operate the installation (iii) at Fairwater Clean Centre
6 Fairwater Square
Fairwater
Cwmbran
Torfaen
NP44 4TA

to the extent permitted by and subject to the conditions of this Permit and operated within the site boundary on the attached **Site Plan A**.

Signed

Authorised to sign on behalf of Torfaen County Borough Council

Dated

Status Log

Permit Reference Number:

Status Log

Permit Reference Number: TCBC EPA B33

Detail	Date	Comment
Date duly made application received	17.10.06	Application received and logged
Date LAPPC application determined and issued in draft	01.06.07	Draft Permit issued for comments
Permit Issued	24.10.07	
Permit Varied	03.06.08	Machine replaced with new
Permit Transferred and Varied	02.05.13	New operator

Table 1 - The Permitted Installation

Activities under Schedule 1 of the PPC Regulations / Associated activity	Description of Specified Activity	Schedule 1 Activity Reference	Relevant Note
Chapter 6 Other Activities.	Dry cleaning of garments, furnishing and similar consumer goods using volatile organic compounds.	Section 7 "SED activities".	PG 6/46(11)

Conditions of Permit

The Permitted Activity

1. This permit gives conditions for the activity (IV) of dry cleaning at **6 Fairwater Square, Fairwater, Cwmbran, Torfaen NP44 4TA** as outlined in red on Plan A accompanying this permit.
2. **Fairwater Clean Centre** is permitted to operate a dry cleaning installation containing the following dry cleaning machine:

Make	Model	Serial Number	Load Capacity	Date of Installation	Dry Cleaning Solvent
Dane Realstar	RS102	91173/ 0261	10kg	2008	Perchloroethylene

Emission Controls

3. From 31st October 2007 operations shall be carried out in such a manner that no more than 20 grams of solvent per kilogram of product cleaned (v) and dried shall be emitted as measured and reported annually. The 20 grams includes all organic solvents (vi) used within the installation e.g. - dry cleaning solvent, waterproofing solutions and spot cleaning solutions. The calculation of solvents used and products cleaned shall be undertaken in accordance with Appendix 2.
4. A weekly inventory of solvent usage, product cleaned and solvent waste sent for recovery shall be maintained and held on site for inspection by Torfaen County Borough Council for at least 12 months. The records shall be kept in the format specified in Appendix 3 or an equivalent format agreed by the Torfaen County Borough Council.
5. The annual solvent management balance sheet shall be kept in the format specified in Appendix 4 or in an equivalent format agreed with Torfaen County Borough Council and shall be submitted to Torfaen County Borough Council at least once a year, commencing from 31st October 2007 to demonstrate compliance with condition 3 above.
6. The operator shall implement the schedule of procedures, checks and maintenance requirements to each dry cleaning machine as listed in Appendix 5 of this permit. Details of all checks shall be recorded and kept in a logbook as specified in condition 38 below.
7. Torfaen County Borough Council shall be advised in writing 14 days prior to any proposed significant alteration to the operation, or modification of the installation which may have an effect on emissions of VOC (vii) from the installation, in particular changes to the matters listed in condition (6) above.

8. The dry cleaning machine shall be installed and operated in accordance with supplier recommendations, so as to minimise the release of VOC to air, land and water.
9. In the case of abnormal emissions (VIII), malfunction or breakdown leading to abnormal emissions the operator must:
 - investigate immediately and undertake corrective action;
 - adjust the activity to minimise those emissions; and
 - promptly record the events and actions taken in the logbook as specified in condition 38 below.
10. In cases of abnormal emissions causing immediate danger to human health, operation of the activity shall be immediately suspended; and Torfaen County Borough Council shall be informed within 24 hours of this emission being detected.

Process Controls

11. Dry cleaning machines shall be operated as full as the type of materials to be cleaned will allow.
12. Cleaning solvents containing VOC shall be stored:
 - in the containers they were supplied in with the lid securely fastened at all times other than when in use; and
 - within spillage collectors, of suitable impervious and corrosion proof materials and capable of containing 110% of the largest container; and
 - away from any drains which may become contaminated as a result of spillage and
 - away from sources of heat and bright light; and
 - with access restricted to only appropriately trained staff.
13. Cleaning solvents containing VOC shall only be removed when the container is next to the cleaning machine ready for filling. Cleaning solvents shall be obtained in containers of a size that allows the entire container to be emptied into the machine at each topping up. Once emptied the lid of the container shall be replaced securely.
14. Spot cleaning with organic solvent or organic solvent borne preparations shall not be permitted unless they are the only method of treating a particular stain on the material to be cleaned.
15. The dry cleaning machine loading door for each machine shall be kept closed when not in use.

16. The dry cleaning machine loading door for each machine shall be closed before the start up of the machine, and kept closed at all times through the drying and cleaning cycle.
17. The dry cleaning machine must have interlocks to prevent start up of the machine until the loading door is closed and to prevent opening of the loading door until the machine cycle has finished and the cage has stopped rotating.
18. The dry cleaning machine must have interlocks to automatically shut down the machine under any of the following conditions:
 - Cooling
 - Water shortage
 - Failure of the cooling ability of the still condenser
 - Failure of the cooling ability of the refrigeration system
 - Failure in the machine heating system in the ability to dry the load.
19. The still, button trap and lint filter doors on each machine shall be closed before the start up of the machine and kept closed at all times through the drying and cleaning cycle.
20. The dry cleaning machine must have interlocks to automatically shut down the machine if the still, button trap and lint filter doors are not properly closed
21. The still for each machine shall for each machine have a thermostatic control device or equivalent with which to set a maximum temperature in accordance with the manufacturer's recommendations for the solvent used.
22. The heat source for each machine shall automatically switch off at the end of the distillation process. Alternatively, dry cleaning machines which have a common steam feed shall either automatically switch off at the end of the distillation process or shall be demand fed.
23. The machine shall have a spillage tray with a volume greater than 110% of the volume of the largest single tank within the machine.
24. The dry cleaning machine must have a secondary water separator to minimise potential solvent losses.
25. Prior to disposal, containers contaminated with solvent shall be stored with lids securely fastened to minimise emissions from residues during storage prior to disposal, and labelled so that all that handle them are aware of their contents.
26. Solvent contaminated waste shall be stored:

- in suitable sealed containers with the lid securely fastened at all times other than when in use; and
 - on a suitable impervious floor; and
 - away from sources of heat and bright light; and
 - with access restricted to only appropriately trained staff.
27. Equipment to clean up spillages shall be quickly accessible in all solvent handling and storage areas.
28. Where PER is used within the installation a suitable continuous monitoring device for PER shall be installed within the operating area of the dry cleaning machine to monitor for leaks and any other malfunctions which may lead to the release of PER.
29. The continuous PER monitoring device shall be maintained and calibrated in accordance with the manufacturers' recommendations.
30. All PER machines shall have a secondary water separator followed by an activated carbon adsorption bed to minimise potential solvent losses.

Record Keeping

38. The operator shall maintain a log book which shall be held on site for a period of at least 12 months and shall be made available for inspection within 7 days upon request by Torfaen County Borough Council. The log book shall include:
- a. Maintenance, testing and repair work carried out on each of the dry cleaning machines.
 - b. Maintenance, testing and repair work carried out on the scales used to weigh the loads.
 - c. Instances of any malfunction leading to the abnormal emissions specified in conditions 9 and 10 above.
 - d. Training records of operating staff required under condition 40 below.

Training

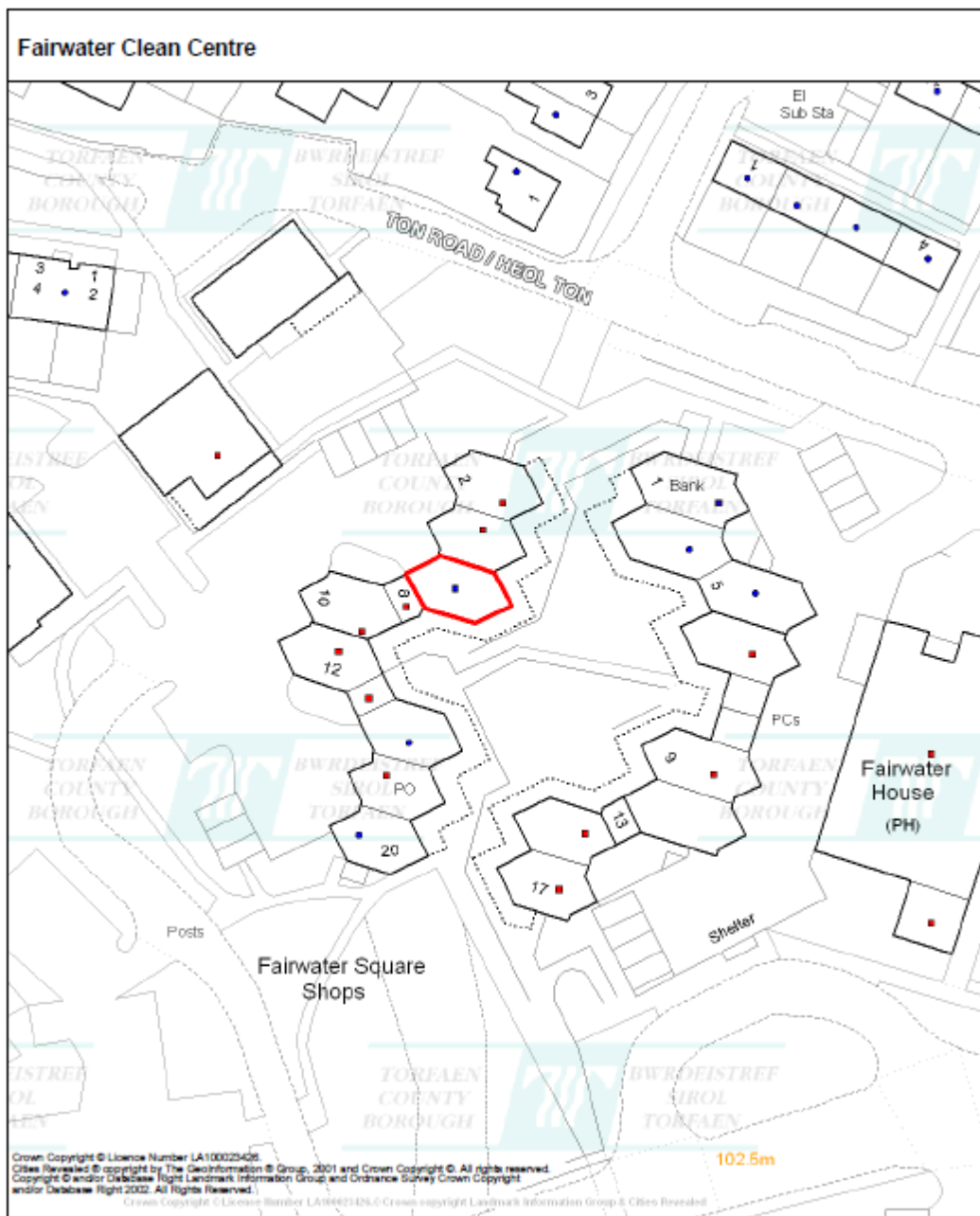
39. All operating staff shall know where the operating manual for each dry cleaning machine is kept and shall have ready access to it.
40. All operating staff shall be trained in the operation of each dry cleaning machine and the control and use of cleaning solvents. The training

received shall be recorded in the log book as specified in condition 38 above.

General

41. Spares and consumables in particular, those subject to continual wear shall be held on site, or shall be available at short notice from guaranteed suppliers so that plant breakdowns can be rectified rapidly.
42. Any future change of the person having operational control of the installation shall be identified in writing to Torfaen County Borough Council within 14 days of taking control.

PLAN A



Appendix 1

Definitions

- (i) The term "Regulator" in this Permit shall be taken to mean Torfaen County Borough Council, Planning & Public Protection Service, situated at County Hall, Cwmbran, Torfaen NP44 2WN. Tel. No. 01633 648560
- (ii) The term "operator" in this Permit shall be taken to mean the person having legal responsibility for the process.
- (iii) The term "installation" in this Permit shall be taken to mean:
 - (a) a stationary technical unit where one or more activities (defined in (iv) below) are carried out; and
 - (b) any other location on the same site where any other directly associated activities are carried out which have a technical connection with the activities carried out in the stationary technical unit and which could have an effect on pollution.
- (iv) The term "activity" in this Permit shall be taken to mean the whole process including the treating, handling and storage of any materials used in and products and wastes produced by the installation.
- (v) 20 grams of solvent per kilogram of product cleaned equates to:
 - For Perchloroethylene: 1 litre per 80 kilograms of product cleaned and dried.
 - For Siloxane: 1 litre per 48.5 kilograms of product cleaned and dried.
 - For Hydrocarbons: 1 litre per 48.5 kilograms of product cleaned and dried.
- (vi) The term "organic solvent" in this permit shall be taken to mean any volatile organic compound (VOC) that is used alone or in combination with other agents, and without undergoing a chemical change, to dissolve raw materials, products or waste materials, or is used as a cleaning agent to dissolve contaminants, or as a dissolver, or as a dispersion medium, or as a viscosity adjuster, or as a surface tension adjuster, or as a plasticiser, or as a preservative.
- (vii) The term "VOC" (volatile organic compound) means any organic compound having at 293.15 K, a vapour pressure of 0.01 Pa or more, or having a corresponding validity under the particular conditions of use for the purpose of the solvents directive, the fraction of creosol which exceeds this value of vapour pressure at 293.15 K shall be considered as a VOC.
- (viii) The term "abnormal emission" includes any detectable solvent odour other than in the area of the dry cleaning machine.

Appendix 2: Solvent and Product Cleaned Inventory

Weekly Inventory Sheet: All Installations

Premises name:		Machine name or reference number:						Solvent Used				Week start date or week number:			
Load Number		1	2	3	4	5	6	7	8	9	10	11	12	Daily Total Weight (Kg)	Solvent added (litres)
Monday	Weight (Kg)														
Tuesday	Weight (Kg)														
Wednesday	Weight (Kg)														
Thursday	Weight (Kg)														
Friday	Weight (Kg)														
Saturday	Weight (Kg)														
Sunday	Weight (Kg)														
Make a note of the reason why any under-weight load was cleaned: B = Blankets D = Delicates L = Lights O = Other W = Wedding Dress												Total for Week			
Maintenance or testing required this week:		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
Still Maintenance															
Lint filter checked and cleaned															
Button trap checked and cleaned															
Notes:															
List your planned preventative maintenance in the 'Maintenance or testing required this week' boxes. Record what you have done for each maintenance item with a tick. Make notes about solvent tank levels, other maintenance, servicing or solvent leaks / spills in the space above.										Signed					

Note: Where the weight of clothes added is recorded in units other than Kilograms, then all other measurements must be made using units that are compatible with the unit used for the weight of clothes.

Appendix 3: Monthly Inventory Sheet: All installations

Site: _____ Solvent: _____

Machine: _____ Month and Year: _____

Week Starting (Date)

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Weigh of work processed (Kg)

					Monthly Total (A)

Solvent Added (Litres)

					Monthly Total (B)

Solvent sent for disposal

					Monthly Total
Total waste drum volume (litres)					(C)
Still cleaning correction factor: 0.5 for powder filter rake-out, or 0.35 for ecological filter rake-out, or 0.5 for pump out					(D)

Compliance this month

Table A

Weight Cleaned (Kg) (A)	Solvent Added (litres) (B)	Solvent Disposed (litres) (C x D = E)	Net Solvent Use (litres) (B - E = F)	Consumption (litres) (A / F = G)	On Target? ** (Yes/No)

** The monthly result should only be used to provide a guide as to the performance of the machine. Solvent input and waste recovered will vary each month, affecting the consumption (G).

Where:

Perchloroethylene is used, if G >80 kg/l = on target

Siloxane is used, if G >48.5 kg = on target

Hydrocarbons used, if G >48.5 kg = on target

Notes:

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Appendix 4: Annual Inventory Sheet: All Installations

Site: _____ Solvent: _____

Machine: _____ Month and Year: _____

Monthly Compliance

(Complete "Table 1" with results from "Table A" from monthly inventory sheet)

Table 1:

Month	Weight Cleaned (kg)	Solvent Added (litres)	Solvent Disposed (litres)	Net Solvent Use (litres)	Consumption (kg/litres)
Total	(A)	(B)	(C)	(D)	

Annual Compliance

Spot cleaning correction factor (litres)*	(E)	
Corrected solvent input (litres)	(D + E = F)	

Solvent efficiency (kgs/litre)	(A / F = G)	
Specific Gravity of Solvent being used	(H)	
Perchloroethylene: 1600g/l		
Siloxane : 970g/l		
HCS : 970g/l		
Solvent emission (g/kg)	(H / G = I)	

Have you met the requirement of the regulation? (Is "I" <20g/kg?)	
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*Spot Cleaning Correction Factor – A figure of 6.25 litres per annum should be used as the spot cleaning factor, whichever is used for cleaning purposes.

Appendix 5 - Schedule of Procedures, Checks and Maintenance

The following schedule of procedures, checks, and maintenance shall be employed:

Daily Leak Detection and Maintenance Checks

- Cage door gasket: (Liquid during the wash process, airborne vapour during dry)
- Button trap lid gasket: (airborne vapour) common leak problem if gasket is dirty or cracked
- Still door gasket: (Liquid and high concentrate hot vapour). Very important area to inspect for leaks.
- Button Trap Sieve: clean at least twice daily and after lint loads (inspect every load for assurance and to ensure that debris cannot pass into the pump and cause damage).
- Lint trap door gasket and filter: clean every 3 loads (every load is better advised). Wash out weekly.
- Every load of dry cleaning check inside the cage.
- Wipe door deals clean when doors are opened.

(Check that drying temperatures are set correctly - vapour leaks are best detected during the early stages of the drying cycle).

Weekly Leak Detection and Maintenance Checks

- Air duct inspection to include: fan mounting flange, heating and cooling coil flanges, air dampers, exhaust valve
- Distillation components: look for leak traces from condenser, vapour-ascending pipe and sight glasses
- Spin disc filter end plate seals
- All solvent valves in general
- At least once a week empty still into waste drums

Monthly

- Completely drain and clean first water separator on **PER** machines.
- Check that all oil valves are working correctly and lubricate for oil
- Check water separators for water build up
- Check for any leaks in oil pipes

Every 6 Months

- If drying times have increased, the following shall be checked:

- (i) Back of cage for build up of lint
- (ii) Take out and clean the heating and cooling batteries and chiller coil
- (iii) Take out still condenser and clean

Annually

- Clean out base tanks and check for corrosion - especially distillation tanks
- Replace door seals (especially still door)

Every 2 Years

- Clean refrigeration cooling coil. This requires a competent engineer.

Additional Checks

- Carry out all safety and maintenance checks set out in the service manual book supplied with each machine
- The frequency of all the above maintenance checks must always be carried out in accordance with the manufacturer's instructions if they are recommended more often than is noted in the above schedule
- Check solvent pump for leaks after repair or maintenance
- Filters: drain spent cartridges on the machine overnight and check for leaks after replacement.

References

1. The Secretary of States Guidance PG 6/46 (11). 'Statutory Guidance for Dry Cleaners' Department for Environment Food and Rural Affairs. 2011.
2. The Secretary of State's Guidance PB8094 'General Guidance Manual on Policy and Procedures for A2 and B Installations – March 2003' Department for the Environment, Food and Rural Affairs, HMSO, (ISBN 0 85521 028 1).
3. The Pollution Prevention and Control Regulations (England and Wales) Regulations 2000, SI No. 1973, The Stationery Office Ltd. (ISBN 0 11 099621 6).

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Please quote **TCBC EPA B33** in all correspondence