

PERMIT REFERENCE: PPC 140  
Frank Brookes (Coventry) Ltd

Pollution Prevention and Control Act 1999  
Pollution Prevention and Control (England and Wales)  
Regulations 2000 as amended

Process Address	Station Street West Coventry CV6 5NA
Process Type	Re-spraying of road vehicles
Current Operator	Frank Brookes (Coventry) Ltd
Previous Operator	n/a
Date of Application	1 <sup>st</sup> April 2004
Date Permit Issued	31 <sup>st</sup> March 2005

**POLLUTION PREVENTION & CONTROL (ENGLAND AND WALES)  
REGULATIONS 2000**

**DOCUMENT A : PERMIT**

**Frank Brookes (Coventry) Limited**

Reference Number **PPC/140.**

Coventry City Council ("the Council") in accordance with Section 10(2) of the Pollution Prevention & Control (England and Wales) Regulations 2000 ("The Regulations"), hereby permits:

**Frank Brookes (Coventry) Limited**

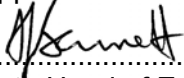
Whose registered office is:

**Frank Brookes (Coventry) Limited  
Station Street West  
Coventry  
CV6 5NA**

to operate a Part B installation involving a coating activity, as prescribed in Section 6.4 Part B of Schedule 1 to The Regulations, at:

**Frank Brookes (Coventry) Limited  
Station Street West  
Coventry  
CV6 5NA**

The permit is subject to the conditions specified in this document consisting of 12 pages and comprising documents A, B and C, plans PPC/140/A, PPC/140/B and PPC/140/C and Appendix 1.

Signed.....  
Alan Bennett, Head of Environmental Health  
A person authorised to sign on behalf of the Council

Dated .....31 March 2005.....

## **SCOPE**

The installation comprises not just any relevant unit carrying out a Part B activity listed in Schedule 1 to the Regulations, but also directly associated activities which have a technical connection with that activity and which could have an effect on pollution.

All pollutant concentrations shall be expressed at reference conditions of 273K and 101.3kPa, without correction for water vapour content.

Technical Guidance documents used in the preparation of this document:

- Secretary of States Guidance Note PG 6/34(04) – Respraying of Road Vehicles
- Secretary of State’s Guidance – General Guidance Manual on Policy and Procedures for A2 and B installations. ISBN 0-85521-028-1

Date Annual Fee Required: 1st April of each financial year

Date For Full Compliance: Date permit issued

Permit Prepared By: Ayeisha Mann

Permit Checked By: Rachel King

## **LEGISLATION**

1. Pollution Prevention and Control Act 1999.
2. Pollution Prevention and Control Regulations 2000 as amended, schedule 1 as amended

## **BRIEF DESCRIPTION OF THE INSTALLATION REGULATED BY THIS PERMIT**

Definitions referred to in this permit

- An **Activity** is an industrial activity forming part of an installation. Different types of activity are listed within Schedule 1 of the PPC Regulations and are broadly broken down into industrial sectors. Other “associated” activities may also form part of an installation.
- An **Installation** comprises not just any relevant unit carrying out a B activity listed within Schedule 1 to the PPC Regulations, but also directly associated activities which have a technical connection with a schedule 1 activity and which could have an effect on pollution.
- An **Operator** is the person (e.g. a company or individual) who has control over the operation of an installation.
- **Volatile organic compound (VOC)** shall mean any organic compound having at 293K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.
- **Organic solvent** shall mean any VOC which 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 a plasticiser, or as a preservative.
- **Stack** includes structures and openings of any kind from or through which substances may be emitted to air.
- **Duct** includes enclosed structures through which gaseous substances may be conveyed.
- **Process vent** includes open terminations of ducts.
- **Authorised Officer** shall mean an officer authorised to carry out duties under the Pollution Prevention and Control Act 1999 and subordinate regulations
- **Logbook** shall mean any electronic or paper means of storage of the required information as agreed by the regulator
- **Local Authority** shall mean Coventry City Council
- **"m"** means metre
- **"m/s"** means metres per second

The general location of the Permitted Process is shown on the attached plan PPC/140/A. The Installation boundary is marked in red on the attached plan PPC/140/B. The internal layout of the paint shop is shown on the attached plan PPC/140/C.

**Description of Installation**

- The delivery and storage of paints, diluents and cleaning solvents in the paint mix room indicated on plan PPC/140/C.
- The dry sanding of vehicles in the strip bay areas employing the use of DA sanding equipment with the dust extracted at source by the Paramatic Betax dust extraction system.
- The mixing of paints on the RM mixing system using a self sealing pouring facility located within the paint mixing room.
- The spray painting of car body panels and subsequent low temperature bake curing of vehicles in the two Gemini II spray booths, employing High Velocity Low Pressure (HVLP) spray guns for painting.
- Application of wax underseal and panel sealants by brush, spray or injection methods.

**Table 1**  
**List of Process Areas within the Installation and Associated Emission Points, Pollutants of Concern and Abatement Plant Required**

<b>Row Number</b>	<b>Area/Machinery Identification</b>	<b>Pollutants Emitted</b>	<b>Emission Limit in Permit</b>	<b>Abatement Plant Required</b>
<b>1</b>	<b>2 x Gemini II Combined Booths</b>	<b>Particulates</b> <b>Volatile Organic Compound's</b>	<b>Particulates -see Clause 1.3</b> <b>VOC's - See Clause 1.4</b>	<b>Dry filters</b>
<b>2</b>	<b>Paramatic Betax Dust Extraction</b>	<b>Particulates</b>	<b>- See Clause 1.7</b>	<b>Bag collection system- not extracted to atmosphere</b>

## **DOCUMENT B**

### **CONDITIONS**

**All conditions shall have immediate effect unless stated otherwise.**

#### **1.0 EMISSION LIMITS AND CONTROLS**

- 1.1 All emissions to air shall be free from offensive odour outside the installation boundary, as perceived by the Local Authority inspector.
- 1.2 There shall be no emissions of particulate matter noticeable beyond the installation boundary.
- 1.3 The concentration of the total particulate matter in the final discharge to air from the two Gemini II spray booths shall not exceed 10mg/m<sup>3</sup>.
- 1.4 All paints, diluents and cleaning solvents used in the process shall comply with the organic solvent specification as detailed in table 5 of the Secretary of State's Guidance Note 6/34(04).
- 1.5 Coatings should be applied using High Volume Low Pressure (HVLP) spray guns
- 1.6 The introduction of dilution to air to achieve the emission concentration limits in this permit is not permitted. Exhaust flow rates should be consistent with the efficient capture of emissions.
- 1.7 Dry sanding and welding of vehicles shall only be carried out when resulting fumes and dust are controlled using the local extract ventilation equipment. Arisings of particulate matter from sanding activities shall be collected in the bag filtration system and not extracted directly to atmosphere.

#### **2.0 MONITORING, SAMPLING AND MEASUREMENT OF EMISSIONS**

- 2.1 A detailed record shall be kept of all organic solvents used in the prescribed process, including cleaning solvents, diluent solvents and solvents contained within coatings themselves. The record shall include:
  - a) the name of each product and its use in accordance the Secretary of States Guidance Note PG 6/34(04) Respraying of Road Vehicles, e.g. gun-wash, top-coat (2 coat)
  - b) the amount of solvent in each product in grams per litre of product as applied
  - c) the total amount of product used in the previous 12 month period
  - d) the total amount of solvent used in the process in the previous 12 month period, to include all products containing organic solvents.

This record shall be forwarded to the local authority once in every 12 month period.

- 2.2 To demonstrate compliance with clause 1.3, the operator shall either:-
- a) provide manufacturers certificates of guarantees and test data to demonstrate that the spray booths meet the required emission concentration limit or
  - b) in the absence of such guarantees and test data, carry out periodic emissions monitoring from the spray booths on a 12 monthly basis.
- 2.3 The Local Authority shall be notified at least 7 days in advance of any periodic monitoring to determine compliance with clause 2.2. This notification shall include the provisional time and date of monitoring, the pollutants to be tested and methods to be used.
- 2.4 Periodic monitoring to demonstrate compliance with clause 2.2 shall not take place without prior approval from this local authority.

### **3.0 OPERATIONAL CONTROLS**

- 3.1 The cleaning of spray guns and other equipment shall only be carried out in the fully enclosed gun wash machine located in the paint mixing room.
- 3.2 The mixing of paint shall only be carried out in the area marked paint mixing room as shown on the plan PPC/140/C. This shall only be done while the extraction system is in operation.
- 3.3 Spray gun testing following cleaning shall only be carried out in the spray booths. This shall only be undertaken when the spray booths are in proper working order. Spray-out shall be collected into a separate receptacle and not sprayed directly into the booth.
- 3.4 The spraying of paint shall only be carried out in the spray booths and these must be in proper working order.
- 3.5 The pressure gauge, audible alarm and booth extract shutdown systems installed on the ovens shall all be in good working order and in operation at all times when the booths are in use.
- 3.6 Dry particulate filters in the spray booths shall be changed as indicated by the gauge on the oven, as in line with the manufacturers guidance.
- 3.7 All full and partially full containers which hold or have held materials that contain organic solvents shall be lidded when not in use and stored on the paint mixing racks in the paint mixing area on the plan PPC/140/C.
- 3.8 Solvent soaked wiping cloths or brushes shall be stored in lidded containers or sealed bags whilst awaiting disposal.
- 3.9 The dry sanding of vehicles using powered equipment shall only be carried out when the Paramatic Betax dust extraction system is in operation.
- 3.10 Dry or dusty material from dust extraction system waste and other dust abatement activities must be securely bagged and stored within closed bins or skips before removal off site.

- 3.11 Any spillages of dry or dusty materials must be cleaned up using vacuum suction or wet sweeping and stored in sealed bags or lidded containers whilst awaiting disposal.
- 3.12 All solvents used for equipment cleaning shall be recycled in the gun wash machine. Dirty solvents and other liquid wastes containing volatile organic compounds (VOC's) shall be dispatched to a private contractor for recycling and copies of receipts for despatched materials retained on site for a minimum of 3 years.

#### **4.0 STACKS, DUCTS AND PROCESS VENTS**

- 4.1 Emission from the spraying or curing of coatings in the two Gemini II spraybooths manufactured by Spray Booth Technology shall only be emitted to the atmosphere via the dry filtration system.
- 4.2 The stacks serving the spray booths shall be at least 3 metres above the roof ridge level and shall achieve an efflux velocity of 15 m/s, without restriction by a cap, cowl or other device.
- 4.3 Emissions from the local extraction ventilation system must only be ducted via the Paramatic Betax dust collection units to be returned to the workshop.

#### **5.0 GENERAL OPERATIONS**

- 5.1 The operator shall undertake regular cleaning and preventative maintenance including inspection and repair/replacement on all plant and equipment concerned with the emission, capture, transport and control of emissions to atmosphere. Where necessary manufacturers guidelines shall be used to determine the regularity of maintenance. Records of preventative maintenance including inspections and any works undertaken shall be kept on site and made available to the local authority inspector on request.
- 5.2 Spares and consumables for plant and equipment used in the installation in particular that subject to continual use or wear shall be held on site or shall be available at short notice. Such plant or equipment shall not be used unless that plant or equipment is capable of working in accordance with the conditions of this permit.
- 5.3 Staff at all levels shall receive the necessary training and instruction in their duties relating to control of the activities and emissions to air. Records shall be kept which details all relevant training provided to staff, and these records shall be kept for a minimum of 2 years.
- 5.4 Any malfunction of plant or spillage of solvent based materials shall be remedied as soon as possible and process operations altered whilst the necessary work is undertaken.
- 5.5 Any incident likely to give rise to adverse atmospheric emissions or emissions that may have an impact on the local community shall be notified to the local authority immediately, and the details of incident including remedial action taken recorded in the process log book.
- 5.6 The operator shall make available on demand and without charge any of the records required to be kept by this permit.



5.7 If there is any intention to change any aspect of the prescribed installation from the description contained in the beginning of this permit, or any other aspect which may affect the substances or concentration or amount of substances being emitted to atmosphere, the operator shall notify the regulator of the proposed changes at least 4 weeks in advance before the changes take place.

**6.0 Solvent Emission Regulations**

6.1 The operator shall identify products or materials that are/contain risk phrased substances/materials R40, R45, R46, R49, R60 and R61 and formulate and implement a timetable to replace, control and limit designated risk phrase materials as soon as possible, as defined and agreed by the Local Authority.

6.2 Compliance for general VOC emissions shall be demonstrated by one of the following methods

1. The use of a solvent reduction scheme to demonstrate the achievement of a target emission. The emission targets are as follows:

Target emission all existing installations by 31/10/05	Target emissions all existing installations from 31/10/07
Total mass of solids x1.8	Total mass of solids x1.2
To be met using compliance coatings and controlled and monitored use of gunwash and thinners	

**Or**

2. By meeting emission and fugitive limits by 31 October 2007 as follows: -

Emission limits /provision	Type of monitoring
50mg/Nm <sup>3</sup> as 2 minute mean for spraying operations 15 minute mean for baking operation	Annual manual extractive testing

The above emission limit values do not apply where compliant coatings are used. Compliant coatings are listed within Table 5 of Secretary of States Guidance for Respraying of Road Vehicles, Process Guidance Note 6/34(04).

The Solvent Emissions Directive (SED) applies to this process however, following the introduction of AQ14 (04) by DEFRA, demonstrating that you use compliant coatings is sufficient to meet the requirements of SED, until this Local Authority is advised otherwise by DEFRA.

## DOCUMENT C

### RESIDUAL DUTY

In relation to any aspect of the process not regulated by specific conditions in this permit, then Best Available Techniques shall be used:

For the purposes of the Pollution Prevention and Control (England and Wales) Regulations 2000, “best available techniques” means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing in principle the basis for emission limit values designed to prevent and, where practicable, generally to reduce emissions and the impact on the environment as a whole; and for the purpose of this definition –

- a) “available techniques” means those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, in the economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator;
- b) “best” means, in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole;
- c) “techniques” includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

## **SUPPLEMENTARY NOTES**

These notes do not comprise part of the Permit PPC/ 140 but contain guidance relevant to the Permit.

### **Inspections and Powers of Entry**

Regular inspections will be carried out by officers of the Council (the Local Authority Inspectors) to check and ensure full compliance with the Permit conditions and residual duties. These inspections may be carried out without prior notice.

Under section 108(6) of the Environment Act 1995 authorised Local Authority Inspectors have been granted powers of entry into any premises for the purposes of discharging relevant duties.

### **Reviews**

The Local Authority has a statutory duty to review the permit at least once every 6 years or in the following circumstances set out in regulation 15 of the Pollution Prevention and Control regulations 2000:

- a) The pollution from the installation is of such significance that the existing emission limit values for the permit need to be revised or new emission limit values need to be included in the permit
- b) Substantial changes in BAT make it possible to reduce emissions from the installation or mobile plant significantly without imposing excessive costs; or
- c) Operational safety of the activities carried out in the installation or mobile plant requires other techniques to be used

### **Health and Safety**

This Permit is given in relation to the requirements of the Pollution Prevention and Control (England and Wales) Regulations 2000. It must not be taken to replace any workplace responsibilities the operator has under Health & Safety legislation. Whenever emission limits quoted in this Permit conflict with occupational exposure limits set under the Health and Safety at Work Act 1974 to secure the health, safety or welfare of persons at work, the tighter limit should prevail.

Installation must be operated in order to protect persons at work as well as the environment. In achieving conditions in this Permit the operator must not adopt any course of action that would put at risk the health, safety or welfare of persons at work.

### **Other Statutory Requirements**

This Permit does not detract from any other statutory requirement, such as the need to obtain planning permission, hazardous substances consent, discharge consent from the Environment Agency, building regulations approval, or a waste disposal licence.

This Permit does not authorise a contravention of any other enactment or any order made, granted or issued under any enactment, nor does it authorise a contravention of any rule or breach of any agreement.

The Operator is advised to consult the relevant Planning Department regarding changes that may be required as a result of this Permit (e.g. stack heights) as they may require planning permission.

### **Transfer of Permits**

Where the operator of an installation wishes to transfer, in whole or in part, his permit to another person, the operator and the proposed transferee shall jointly make an application to the regulator to effect the transfer. Such an application shall be accompanied by the permit and any fee prescribed in respect of the transfer.

In the case of partial transfer, where the original operator retains part of the permit, the application must make clear who will retain control over the various parts of the installation. The application must include a plan identifying which parts of the site and which activities the operator proposes transferring.

The local authority will then determine whether to allow the transfer within a two-month period, unless the local authority and the applicants agree a longer period. Where the local authority approves the transfer, the transfer will take effect from the date requested by the operator or a date that may be agreed by the local authority and the applicants.

### **Variation to Permits**

Variation to permits may be initiated either by the local authority or the operator, either in response to changes in the operation of an installation or if new conditions are needed to deal with new matters. Variations may be required in response to the following.

- Change of operation of the installation. (The operator shall notify the local authority under Section 16(1) of the Regulations.)
- In response to the findings of a periodic review of conditions.
- In response to the findings of an inspection.
- New or revised sector guidance notes

The operator should apply to the Local Authority in order to vary a permit under regulation 17 of the Regulations. The application must be in writing and, in accordance with Part 1 of Schedule 7 to the Regulations contain:

- The name, address and telephone number of the operator.
- The address of the installation.
- A correspondence address.
- A description of the proposed changes.
- An indication of the variations the operator would like to make.
- Any other information the operator wants the authority take account of.

### **Substantial Change**

A substantial change means, in relation to an installation, a change in operation, which in the opinion of the local authority may have significant negative effects on human beings or the environment.

Where the local authority deems that a proposed variation constitutes a substantial change, the operator will be informed of the process to follow.

### **Noise**

This Permit does not include reference to noise. Statutory noise nuisance is regulated separately under the provisions of Part III of the 1990 Act.

### **Appeals**

An Appeal can be made against the conditions in, or variations to this Permit as per Part IV of the Regulations. Appeals are made to the Planning Inspectorate who acts on behalf of the Secretary of State. Appeals against conditions within a Permit must

be submitted within 6 months of the date of issue of the permit. Appeals against variation notices must be submitted within 2 months of the date of issue of the notice. Appeals should be despatched on the day they are dated and sent to:

The Planning Inspectorate  
Environmental Appeals Administration  
Room 4/19 – Eagle Wing  
Temple Quay House  
2 The Square  
Temple Quay  
BRISTOL  
BS1 6PN

### **HMSO Publications**

All HMSO publications can be ordered by telephone on Tel: 0870 600 5522, Fax: 0870 600 5533 or e-mail: [book.orders@tso.co.uk](mailto:book.orders@tso.co.uk)

### **Emission Monitoring Protocol**

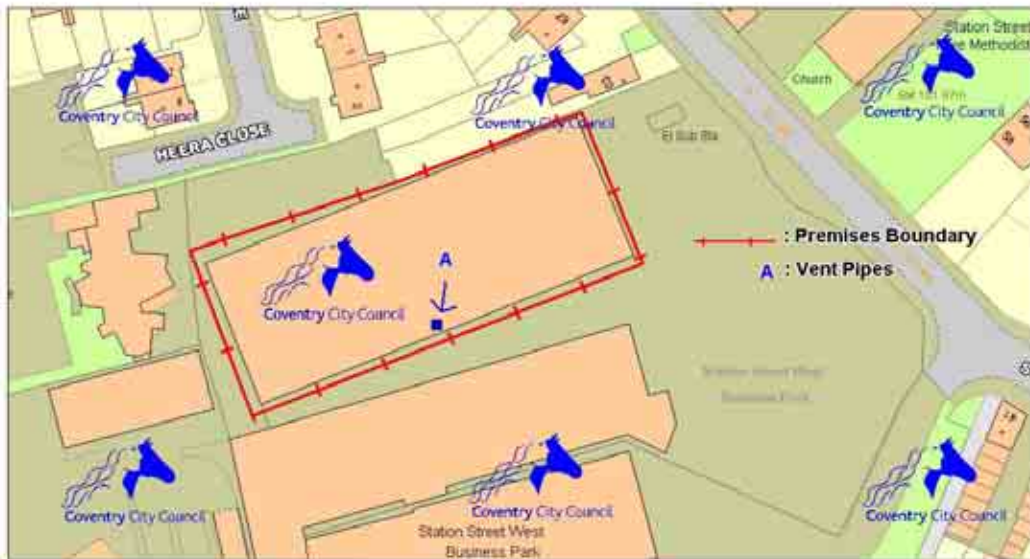
The documented procedure by which reliable and comparable results are obtained from measurements at source is known as a Protocol.

Protocols ensure that the sampling procedures are carried out correctly and that the results obtained accurately characterise the process.

The main components of a Protocol are as follows:-

1. Calibre and quality of the sampling team.
2. A reference measurement method (standard methods may not always be available)
3. A standard methodology setting out:
  - health and safety considerations
  - pollutants of interest
  - plant operating conditions required
  - selection and location of sampling position
  - sampling characteristics (e.g. isokinetic etc) and techniques
  - sampling frequency
  - sampling duration
  - number of samples
  - type (including make and model), condition and suitability of sampling equipment
  - required accuracy
  - variability of emissions
  - analytical methods including laboratory competence and NAMAS accreditation certificate copy for each pollutant of interest
  - analytical precision
  - procedures to be adopted if standard methods unavailable
  - calibration certificate(s) for sampling equipment
  - Quality Control and Quality Assurance procedures
  - Presentation of results and associated information.

Plan PPC/140/A Frank Brookes Limited



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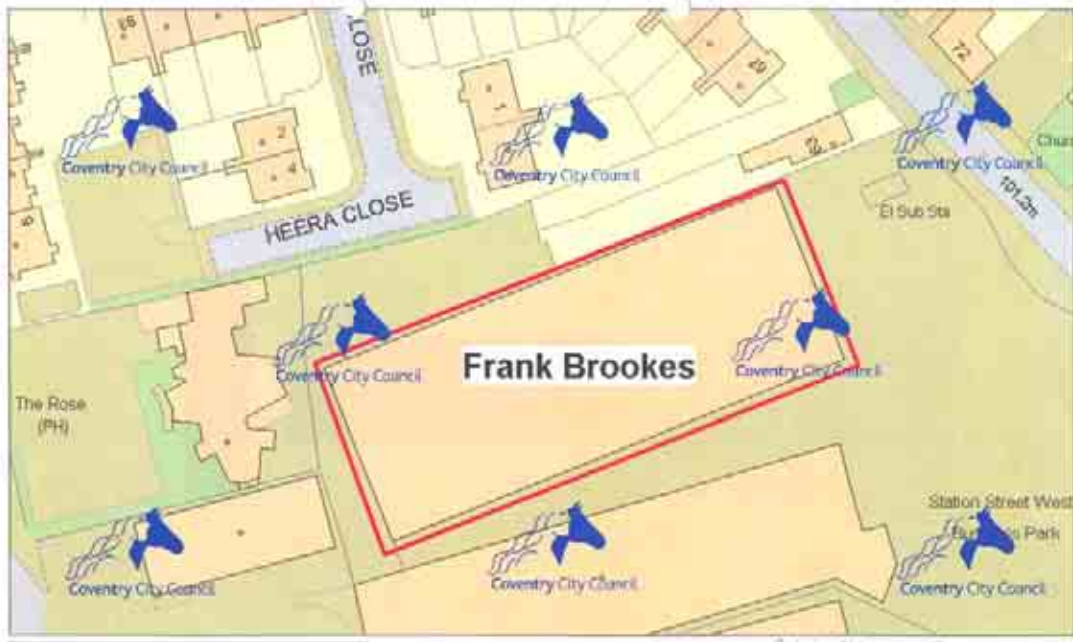
City Services Directorate,  
 Environmental Health,  
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 Coventry, CV1 1NH

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Plan PPC/140/B



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