When to use this form
Use this form if you are applying for a variation to an existing service station permit in order to extend it to cover the operation of PVR Stage II.

A fee is only required to be enclosed if the variation involves a 'substantial change'. A substantial change is defined as "a change in operation which, in the opinion of the competent authority [the regulator] may have significant negative effects on human beings or the environment". (Closure of an existing service station and the building of a new replacement station at another location is likely to require a full fresh application, i.e. not constitute a variation.)

When complete, send the form and the fee and any additional information to:

If you need help and advice
We have made the application form as straightforward as possible, but please get in touch with us at the local authority address given above if you need any advice on how to set out the information we need.

South Northamptonshire Council
Springfields
Towcester
Northamptonshire
NN12 6AE
A1.1. Name of the premises

A1.2. Please give the address of the premises
Brackley SF Connect
Northampton Road
Brackley
Northampton
NN13 5SZ

Telephone... 01280705451

A1.3. Reference number of existing PVR Stage I permit for the installation

A2.1. The applicant - Please provide the full name of company or corporate body or the name of the sole trader or the names of the partners

BP Oil UK Limited Express Shopping
Licensing Department
3rd Floor Witan Gate House,
500-600 Witan Gate,
Milton Keynes,
MK9 1ES

Telephone:
01908 85 3380

Registered Office address

Chertsey Road,
Sunbury on Thames,
Middlesex,
TW16 7BP.

Registered in England and Wales, number 446915.

A2.2. Holding companies
Is the operator a subsidiary of a holding company within the meaning of section 1159 of the Companies Act 2006?

☐ No

☑ Yes

If yes? Name and address of ultimate holding company

BP P.L.C.
1 ST JAMES’S SQUARE
LONDON
SW1Y 4PD

Company No. 00102498

A3 Who can we contact about your application?

It will help to have someone who we can contact directly with any questions about your application. The person you name should have the authority to act on behalf of the operator - This can be an agent or consultant.

Name
Jan Martin-Read

Position
Licensing Co-ordinator

Address
BP Oil UK Limited,
Licensing Department
3rd Floor Witan Gate House,
500-600 Witan Gate,
Milton Keynes,
MK9 1ES

Telephone:
01908 85 3380

Fax number

Email address
Jan.Martin-Read@UK.BP.com
B. About the installation

B1.1 Is PVR Stage II equipment already fitted:

☐ No

☑ Yes

B1.2 If the answer to B1.1 is "no",

a) when do you intend to fit it ....N/A

b) what arrangements are in place (eg contract with installers) to fit it N/A

B2.1 What systems have been installed or is it intended to install to comply with PVR Stage II?

**BP Multiproduct dispensers as detailed in attachments.**

Doc Reference ......Attachment 1.....( BP PVR II System Info).........

B2.2 What is or will be the vapour/petrol ratio?

......95% – 105%..............................................

B2.3 Please attach process diagrams and plans of VPR Stage II system, including pipework layout.

Doc Reference ..........Attachment 2...- PVR
A2 – PVR-II Drainage Layout 12021-42-A – Drainage Layout

B2.4 What arrangements will be/have been made for preventative maintenance of the PVR Stage II equipment.

**BP manages maintenance of its company owned sites through centralised contracts. Maintenance is controlled through an on line ordering, despatch and recording system known as e-Maintenance (e-mtce) through which sites can access and track their maintenance needs. e-Maintenance schedules and tracks works related to Stage 1b and Stage 2 VR equipment. A schedule of planned maintenance and testing is attached. Test certificates are retained in the e-mtce system, accessible on site. Equipment faults identified by sites are entered into e-mtce and tracked to close out in the system. Faults noted on record sheet (Attachment 5), with e-mtce reference code, kept in PVR2 section of Site Register.**

Doc Reference Attachment 3 (Maintenance Schedule for PVR Systems)
82.5 What arrangements will be/have been made to ensure relevant staff are adequately familiar with/trained in the use of the PVR Stage II equipment.

Sites issued with descriptive leaflet (Stage II (PVR II) CO Site information) identifying system details and requirements for checking.
PVR2 system checks and key characteristics incorporated in on line training modules

Doc Reference ......Attachment 4 (Stage II (PVR II) CO Site information)

82.6 Please attach procedures and contingency measures in the event of vapour containment equipment failure (including the system for vapour recovery during filling of vehicle petrol tanks).

Equipment faults identified by sites through their daily and weekly check list systems are entered into e-mtce and tracked to close out in the system. Faults are manually noted on record sheet (attached), with e-mtce reference code, kept in PVR2 section of Site Register.

Doc Reference ......Attachment 5 (Stage II (PVR II) Operating Record)

82.7 Please provide a certificate to confirm conformity of the PVR Stage II equipment with approval for use under the regulatory regimes of at least one European Union or European Free Trade Association country and to confirm that the hydrocarbon capture efficiency of the equipment is not less than 85% (ie that at least 65% of the displaced vapours are recovered, according to the relevant 'type approval' test (see Section 5.16 of PG1/14(06)), expressed as the ratio of the volume of hydrocarbon vapours displaced to the volume of petrol discharged.

Doc Reference ......Attachment 6A (Wayne TUV Type Approval Certificate) Attachment 6B (Tokheim TUV Type Approval Certificate)

82.8 What arrangements will be put in place to test delivery systems and vapour recovery systems, including the testing of the vapour/petrol ratio? Please provide details of testing of the vapour containment integrity in accordance with the manufacturer’s specifications (to be undertaken prior to commissioning and periodically at least once every 3 years thereafter and always following substantial changes or significant events that lead to the removal or replacement of any of the components required to ensure the integrity of the containment system).

Annual tests scheduled in e mtce as identified in 82.4. Specific Procedure for Wayne equipment attached as reference. Tokheim similar.

Doc Reference ......Attachment 7 (Dresser Wayne Vapour Recovery – Test and Calibration)

82.9 Is an "automatic monitoring system" installed, or will it be installed, to automatically detect faults in the proper functioning of the petrol vapour recovery system including the automatic monitoring system; to indicate faults to the operator; and to automatically cut off the flow of fuel on the faulty delivery system if the fault is not rectified within 1 week?

☐ No     ☐ Yes
B3 Additional Information

Please supply any additional information, which you would like us to take account of in considering this application.

Charging levels for LAPPC Part B permits are based on a standard Regulatory Effort Assessment. To assist with this assessment a commentary on BP's proposed route to low risk compliance with the particular issues noted has been prepared and is attached here for reference.

Doc Reference: Attachment 8 (LAPPC Compliance Effort Assessment)

C1. Fees and Charges

C1.1. Please enclose the relevant sum if this variation involves a substantial change, and state the amount enclosed.

£ \text{N/A}

Cheques should be made payable to: \text{N/A}

We will confirm receipt of this fee when we write to you acknowledging your application.

C1.2. Please give any company purchase order number or other reference you wish to be used in relation to this fee.

\text{N/A}

C2. Annual charges

If we grant you a permit, you will be required to pay an annual subsistence charge. If you don't pay, your permit can be revoked and you will not be able to operate your installation.

C2.1. If different to details provided in relation to your current PVR Stage 1 permit, please provide details of the address you wish invoices to be sent to and details of someone we may contact about fees and charges.

\text{Jan Martin-Read}
\text{Licensing Co-ordinator}
\text{BP Oil UK Limited,}
\text{Licensing Department}
\text{3rd Floor Witan Gate House,}
\text{500-600 Witan Gate,}
\text{Milton Keynes,}
\text{MK9 1ES}

\text{Telephone: 01908 85 3380}

\text{email address: Jan.Martin-Read@UK.BP.com}

C3. Commercial confidentiality
C3.1. Is there any information in the application that you wish to justify being kept from the public register on the grounds of commercial or industrial confidentiality?

No

If Yes, please provide full justification, considering the definition of commercial confidentiality within the EP Regulations (See the General Guidance Manual).

C4. Data Protection

The information you give will be used by the Local Authority to process your application. It will be placed on the relevant public register and used to monitor compliance with the permit conditions. We may also use and or disclose any of the information you give us in order to:

- consult with the public, public bodies and other organisations,
- carry out statistical analysis, research and development on environmental issues,
- provide public register information to enquirers,
- make sure you keep to the conditions of your permit and deal with any matters relating to your permit
- investigate possible breaches of environmental law and take any resulting action,
- prevent breaches of environmental law,
- offer you documents or services relating to environmental matters,
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows)
- assess customer service satisfaction and improve our service.

We may pass on the information to agents/representatives who we ask to do any of these things on our behalf.

It is an offence under regulation 38 of the EP Regulations, for the purpose of obtaining a permit (for yourself or anyone else) to:

- make a false statement which you know to be false or misleading in a material particular,
- recklessly make a statement which is false or misleading in a material particular.

If you make a false statement

- we may prosecute you, and
- if you are convicted, you are liable to a fine or imprisonment (or both).
C5 Declaration: previous offences (delete whichever is inapplicable)

We certify

EITHER: No offences have been committed in the previous five years which are relevant to my/our competence to operate this installation in accordance with the EP Regulations.

OR: The following offences have been committed in the previous five years which may be relevant to my/our competence to operating this installation in accordance with the Regulations:


date: August 2014

Signature ..............................................................

Name: Jan Martin-Read  Position: Licensing Co-ordinator

6 Declaration

C6.1 Signature of current operator(s)*

We certify that the information in this application is correct. We apply for a permit in respect of the particulars described in this application (including supporting documentation) We have supplied.

Please note that each individual operator must sign the declaration themselves, even if an agent is acting on their behalf. See Attachment 9 BP Signing Authority

For the application from:

Premises name .......... Brackley SF Connect

Signature ..............................................................

Name: Jan Martin-Read  Position: Licensing Co-ordinator

Date: August 2014
* Where more than one person is defined as the operator, all should sign. Where a company or other body corporate – an authorised person should sign and provide evidence of authority from the board of the company or body corporate.
BP Petrol Vapour Recovery Stage II (PVR II) System Information

The BP Stage 2 Vapour Recovery System

BP, in the UK, uses dispensers supplied by Dresser Wayne or Tokheim built in accordance with EN 13617. These dispensers are factory fitted with the required vapour recovery equipment.

The Stage 2 vapour recovery solutions used in the dispensers from these suppliers have been tested for compliance against vapour recovery test method VDI 4205 by TUV in Germany. These tests require average 85% efficiency of recovery over a specified range of vehicles with the vapour pumps controlled to a 95% - 105% vapour liquid ratio.

Annual simulated flow tests by approved maintenance contractors ensure that the system remains in the 85% - 115% Vapour liquid ratio required in DEFRA PGI 14(06) and are adjusted as appropriate.

Dispensers are fitted with a fault indication system which is visible in the dial face area. Should there be a fault with the power to the vapour pump or with the valve control system the fault LED is illuminated and remains illuminated until the problem is rectified by a maintenance engineer. Site staff frequently check dispensers for proper operation of the VR system and maintain a fault log.

Permit compliance, Maintenance services and the annual service check are managed and tracked centrally from BP's UK Retail Head Office at Milton Keynes.

Equipment Components

- BP's petrol dispensers are fitted with:
  - an Elflex ZVA vapour recovery nozzle, stainless steel coaxial hose, Swivel break coupling and splitter adaptor on each of the petrol supply hoses.
  - Two piston vapour pumps, one for each side of the dispenser.
  - Wayne equipment - Gardner Denver Thomsen type 8014-5.0/6.0 in Tokheim equipment - Duerr Technik MEX 0631-11
  - Two proportional control valves, one for each side of the dispenser which are electronically controlled to moderate the return flow in line with the fuel delivery flow rate.

Donation

- In Wayne equipment - Burkert 6032/ 2832
  - Tokheim equipment - ASCO 3V1382902-24V type ENOX
  - A Rössingr, double poppet shear valve.

Vapour is returned to the most appropriate underground petrol tank through a manifolded 2" vapour return pipe.

Fault Monitoring

The correct functioning of the Stage 2 VR system in the dispenser is automatically monitored by the pump computer. Repeated fault codes generated by the vacuum pump or the proportional valve control systems of the dispenser are converted by the dispenser computer to a visual signal in the form of a continuous red LED located on the dispenser dial face.

Fault LED's visible during routine regular checks of the dispensers by site staff will be recorded in the fault log and a maintenance call made.

Wayne Approval

Certificate Number TUV 85-2.127.1
Max delivery rate of 38 litres per minute
Max back pressure 180 mbar
Air test correction factor 1.90

Tokheim Approval

Certificate Number TUV 85 A4.2.1
Max delivery rate of 40 litres per minute
Max back pressure 50 mbar
Air test correction factor 1.10

If you have any questions with regard to the Design and Operation of BP's Vapour recovery systems please email:

Phil Lambeth, European Design Manager, BP Global Fuels Technology / Global Alliance
phil.lambeth@bp.com

Dresser Wayne

Wayne Pignone
Dresser Wayne Pignone, Butterfield Industrial Estate, Bennington, Midlothian.
Scotland. EH19 3XQ
Tel: +44(0)1875 402140

Dresser Wayne Pignone
Dresser Wayne Pignone, Butterfield Industrial Estate, Bennington, Midlothian.
Scotland. EH19 3XQ
Tel: +44(0)1875 402140

Issued by: BP - Global Alliance
July 2009, v 0
BP PVR II System Info

Global Alliance
BP Oil UK Ltd

Maintenance Schedule for Petrol Vapour Recovery (PVR) Systems

Systems include all equipment pipework and processes required for:
PVR Stage 1b - transfer of vapour displaced from the underground storage tanks during filling from the delivery road tanker from the vents to the road tanker.
PVR Stage 2: - collection of vapour displaced from vehicle tanks while being filled at petrol dispensers and transfer to the underground fuel storage tanks.

1. Maintenance Contract
The maintenance contract is administered by BP Oil UK ltd
Contact: The Fuels Maintenance Manager
BP - Global Alliance
Witan Gate House
Central Milton Keynes
MK9 1ES
Tel 01908 853616

2. Site Particulars
   a. See site layout plans attached for an indication of principal components comprising:
      i. Storage tanks, tank fill points and vapour connection, tank vents and vent manifold, fuel dispensers

3. Maintenance Schedule
   a. Pressure/Vacuum/Orifice vent valve - located at top of petrol vents valve to be visually checked annually for correct and free operation, replace if defective.
      Check and clean flame arrestor gauze as needed, replace if defective, replace valve every 3 years.
      i. Type fitted - Risbridger RIS-VENT with orifice or equivalent
   b. Vapour recovery adaptor (for connection of the tanker vapour hose) to be checked for tightness when closed and for correct and free operation, report for replacement / corrective action if defective. check and clear flame arrestor cartridge (where fitted).
      i. Vapour adaptor type fitted - Risbridger Vapour Retainer ref 3416 or equivalent
   c. Check continuity of electrical bonding while progressing other checks (visual only - annual electrical test will confirm proper earthing) report any defects
   d. Pipework – carry out annual tightness test of vapour containment system to include offset fills, vent pipes, vent manifold and vapour return pipes. Report any defects.
   e. Carry out visual check of dispenser external hoses, nozzles and associated fittings to confirm no damage which might potentially allow the loss of liquid or vapour. Report any defects for correction.
   f. Signage - confirm all appropriate signage is present and complete including tank contents labels identifying tank No., capacity and grade, vent labels identifying which tank they are connected to and all statutory safety signs at vents and fill points.

PVR Systems - Schedule of Required Maintenance

July 2009
4. **Additional items for sites with Stage 2 Vapour recovery systems**
   a. Site staff confirm proper operation of Stage 2 VR system in pumps on a weekly basis in accordance with pump manufacturer's instructions. Defects identified are recorded and repaired within 7 days.
   b. Air/Liquid recovery ratio of dispenser checked in accordance with manufacturers instructions to be within prescribed limits on an annual basis. Correct as needed. Maintain records in site register.
   c. Pressure test to confirm tightness of the vapour return pipes every 3 years. Repair any leaks identified. Maintain a record on site of the checks and any corrective

5. **General**
   a. All contractors carrying out testing or other maintenance works must present their method statement and clearance certificate, incorporating a suitable risk assessment, to the site manager for sign of before commencing any work.
   b. Clearance certificates must be signed by the site manager / appropriate competent person on completion of works
**Petrol Vapour Recovery Stage II (PVR II) CO Site Information**

**Stage II of what?**

Petrol Vapour Recovery Stage I was introduced in 2000 and required the collection of petrol vapour displaced during the loading and unloading of the Petrol Tanker. All sites in the UK are now fitted with PVR I.

PVR II will collect the vapour displaced from car fuel tanks as they are filled on the forecourt.

**The Red Light Area**

Site staff need to check dispenser displays at least once every week to confirm the correct functioning of the Stage 2 VR system. If a fault occurs with the vapour pump or the control valves the dispenser displays an illuminated red LED located on the dispenser dial face.

(on Tokheim pumps the light is just below the litres display)

If you see this red light log it against pump no and date and report the fault to the maintenance centre in the usual way.

An illuminated LED can only be cancelled by an engineer intervention.

Correct functioning is confirmed at the end of every petrol sale when a green (red with Tokheim) LED will blink once.

**The Legal Bit**

PVR II is regulated in England and Wales, Scotland and Northern Ireland under the regional versions of The Pollution Prevention and Control Regulations, 2000.

Your site requires a permit to operate Vapour Recovery Systems which is granted by your local council, Environmental Health Department and is renewed annually by the licensing coordinator in WGH.

A copy of this permit and any specific conditions of the permit must be retained on site.

All sites selling more than 3.5 million litres of petrol a year must be fitted with Stage II Petrol Vapour recovery from 1st January 2010. All new sites built after that date (including major modifications), which will sell more than 0.5 million litres of petrol a year must also be fitted.

There is no UK certification but the performance of PVR II systems must be certified as achieving 85% efficiency to one or more of the existing standards in Germany, Sweden, France, Austria or the Netherlands.

Once installed operators must ensure the system is working properly and recovering vapour at a rate between 85% and 115% of the fuel flow rate. Regular weekly checks must be made to ensure the system is operating (see The Red Light Area) and annual flow tests will be carried out by maintenance to check the recovery efficiency. Any faults must be recorded in a log maintained on site.

ATEx 137 Worker Protection Directive (HSAW)

The employer/owner of the site is responsible for ensuring that explosion risks have been assessed and that equipment is correctly designed, operated and maintained.

All equipment for use in hazardous atmospheres must be tested, certified and marked in accordance with the requirements set out under the ATEx 100 (Equipment) directives.

BP has been operating Stage 2 on many sites in the UK since early in 2000. We also have extensive experience of operating vapour recovery systems in many countries in Europe.

If you need further information please get in touch with the maintenance centre in Wigan Gate House.

**The Technical Stuff**

Pumps are fitted with:
- a special nozzle (1) with hose and splitter adaptor
- a vacuum vapour pump (3) for each sides of the dispenser
- an electronically controlled valve (2) in the pump which matches the vapour recovery flow rate to the fuel delivery flow rate.

**WHY?**

Petrol vapour which escapes into the atmosphere is directly connected to an increase in ground level Ozone, a major pollutant which causes breathing disorders and other health problems in humans and is poisonous to plants.

Petrol Vapour Recovery Stage II in the UK will prevent the release of 30,000 tonnes of vapour into the atmosphere which will achieve significant reductions in ground level ozone.

**Issued by:** BP Oil UK Ltd
April 2009
PVR II CO Information v0
BP Petrol Vapour Recovery
Stage II (PVR II)
Operating Record

Checking Equipment Reporting Faults

You must check pumps daily to ensure safety and cleanliness. This is completed as part of your 'Store Check'. On a daily basis, the pumps are to be checked for:
- Damage to panels
- Damage to Nozzles and couplings
- Damage and wear to Hoses

Any damage found should be reported through e-maintenance. If the damage affects the safety of the pump it should be taken out of action pending repair by an approved maintainer.

Stage 2 monitoring adds an additional check to this daily routine. If a red light is visible at the lower corner of the volume display window it must be reported as a Stage 2 VR fault for the particular pump through e-maintenance and the incidence logged in the form below and retained as part of the Petroleum Register in section 6. Your PO or any other regulator representing the Environment Agency may ask to see these records.

Periodically check that the light is working by observing transaction completion. The light will flash once as the nozzle is replaced. If it doesn't report as a fault through E-Maintenance.

Automatic Monitoring

The correct functioning of the Stage 2 VR system in the dispenser is automatically monitored by the pump computer. Repeated fault codes generated by the vacuum pump and the proportional valve control systems of the dispenser are converted by the dispenser computer to a visual signal in the form of a continuous red LED located on the dispenser dial face.

Fault LEDs will be easily identified during routine periodic checks of the dispensers by site staff who will record the fault and log a maintenance call.

The illuminated LED can only be cancelled by an engineer intervention.

Functioning of the LED is confirmed in the end of every sale when the nozzle is replaced the LED will blink once.

Stage 2 Vapour Recovery Fault Record Form

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Date Fault noted</th>
<th>initial</th>
<th>E-Maintenance Job Ref.</th>
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Make a copy of the rear of this form as a continuation

Further information: contact your Retail Territory Manager or

Maintenance Centre Help Desk: 0800 nnn nnn
BP help desk : 01927 85 xxxx
Store Support team : 01927 85 nnnn

Issued by: BP – Global Alliance
January 2008
PVR II Site Ops Record v0

Global Alliance

This note contains a brief summary of the Stage 2 system data as installed by BP in Wayne Global Site Dispenser. It is not intended to be comprehensive or exhaustive. BP reserves the right to modify system data. All rights reserved. Use of this document is subject to the terms and conditions of any agreement for the equipment or module. Users of this note should confirm that it is also applicable for the equipment being used at any particular site.
**Stage 2 Vapour Recovery Fault Record Form**

Forms must be retained as part of the Petroleum Register.

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Site Name: ____________________________

Site No: ____________________________

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<tr>
<th>Pump No.</th>
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<th>initial</th>
<th>E-Maintenance job ref.</th>
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*This sheet is to be copied. Do not complete this page (if visible score through on Photocopy)*
Certificate No. 85-2.127

The Certification Body for Fuel-Vapor Recovery Systems of TÜV Süddeutschland, Tank Systems Competence Center, Westendstr. 199, D-80888 Munich, hereby certifies testing of the following fuel-vapor recovery system in line with the code of practice:
"System testing for active fuel-vapor recovery systems and their monitoring systems in Germany (Code of Practice I)" of June 17, 2002:

- Nozzle: ELAFLEX ZVA 200 GR
- Hose: ELAFLEX Conti Slimline 21/8 Coax
- Control valve: Bürkert, 6022 / 2632, with electronic control: Bürkert
- Vapor recovery pump: ASF Thomas, Type 8014-5.0

The following general requirements must be observed in installation:
- maximum volumetric fuel-flow rate: 38 l/min
- maximum counter pressure in fuel-vapor recovery line: 150 mbar
- coefficient of correction for system adjustment with air: 1,09

The required minimum efficiency ratio of 85% was demonstrated.

The fuel-vapor recovery system is in line with the state of the art as defined in the 21. BImSchV' (Regulation governing the limitation of hydrocarbon emissions during motor-vehicle refueling) of October 7, 1992, last amended on May 6, 2002.

Munich, October 23, 2002

Officially Authorized Expert

Peter Szalata

---

1 Air Pollution Control Regulation
Certificate No. 85 A/L-2.1

The TÜV SÜD Test Body for Vapor Recovery Systems, Westendstr. 199, D-80686 Munich, certifies having conducted tests according to the following code: "Measurement and test methods for the assessment of vapour recovery systems on filling stations- VDI 4205" on the following vapor recovery system:

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Fuel-hose nozzle</td>
<td>ELAFLEX ZVA 200 GRV 3</td>
</tr>
<tr>
<td>Hose</td>
<td>ELAFLEX Conti Slimline 21/8 Coax</td>
</tr>
<tr>
<td>A / L regulator valve¹</td>
<td>ASCO, Model JV1326902.24/DC, Type EMXX with</td>
</tr>
<tr>
<td></td>
<td>Control board: &quot;Tokheim SAS&quot;</td>
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<tr>
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<td>Typ ECVR - OL</td>
</tr>
<tr>
<td>Vapor valve²</td>
<td>Not required - if internal in fuel-hose nozzle</td>
</tr>
<tr>
<td>Vapor recovery pump</td>
<td>Dürr, MEX 0831-11</td>
</tr>
</tbody>
</table>

Test results:

A/L 99.4 % at volumetric fuel-flow rate 40 l/min

Average³ efficiency 95.4 %

The following general conditions must be observed during installation:

- Maximum volumetric fuel-flow rate: 40 l/min
- Maximum counter pressure in recovery line: 50 mbar
- Correction coefficient for system settings with air: 1.10

Germany
Munich, 20.08.2007

[Signature]
Peter Szalata

---

¹ regulates air to liquid ratio
² opens the vapor path during liquid flow
³ According to VDI 4205 in normal position and 45° position using VW Polo as reference car under realistic fuelling conditions.
Vapour recovery
Burkert Vapour recovery
and Wayne iGEM

Test and Calibration
**Product Liability**
For the supplier's product liability to be valid, no alterations, additions or the like may be made to the equipment without the supplier's express permission.
Use only genuine parts.

**Caution**
To prevent damage that might result in electric shock or fire, disconnect the main power prior to any work.

**Warning**
Never run a leaking pump! Be careful with the environment and mind the skidding risk; take care of leaking fuel immediately.

**Vorsicht**
Um Beschädigungen zu vermeiden, die zu einem elektrischen Schlag oder Feuer führen können, unterbrechen Sie vor jeder Arbeit die Stromzufuhr.

**Warning**
Använd aldrig en läckande pump. Våg på miljön och halkrisken, sänka uttömmat drivmedel snarast.

**Vorsicht**
Wenn Sie nie eine unbedachte Zapfpumpe laufen lassen, denken Sie an die Rutschgefahr; entfernen Sie austretenden Kraftstoff umgehend.

**Warning**
Gör pumpen/enheten strömlös innan Du gör ingrepp i den. I annat fall föreligger risk för skada.

**Vorsicht**
Wenn Sie nie eine unbedachte Zapfpumpe laufen lassen, denken Sie an die Rutschgefahr; entfernen Sie austretenden Kraftstoff umgehend.

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1 Test of vapour recovery

The following instructions must be used when verifying the vapour recovery system on pumps equipped with iGEM.

Test

1. Enter function F34.03 (side A) or F34.04 (side B)

2. Lift the nozzle you want to test. You can read the simulated flow on the display. (default 25 litres/minute)

3. Mount the Elaflex FLOTESTER (Wayne Malmo number 452442) on the nozzle.

4. Hold the nozzle in vertical position as described in figure.

5. Set flow, using remote control (up or down), to 20 litres/minute.

6. Wait until flow displayed on Elaflex FLOTESTER is stable then verify that flow is >20.7 and <22.9 litres/minute

7. Set flow, using remote control (up or down), to 38 litres/minute.

8. Wait until flow displayed on Elaflex FLOTESTER is stable then verify that flow is >39.3 and <43.4 litres/minute

9. Dismount the Elaflex FLOTESTER.

If values are out of range, calibrate the vapour recovery system.
2 Manual adjustment of Bürkert Vapour recovery with Wayne iGEM pumps:

1. Enter function F26.01, and set parameter to 1.
2. Enter function F40 using the remote control.
3. Sub function F40.01: Lift nozzle (Nozzle no. and side is indicated on sales display). Then press ENTER
4. Mount Elaflex FLOTESTER in nozzle to be calibrated.
5. Place nozzle in vertical position as described in picture.
6. Sub function F40.02: Proper VAP motor is started to be heated. A counter is decrementing from 60 to 0. By pressing NEXT on remote control, user can skip heating if motor is already warm.
7. Sub function F40.03: A fuel flow of 10 litres/min is simulated. Enter flow indicated on flowmeter as decilitres/min (e.g. 120 for 12 litres/min) using the remote control. Press “#” then enter digits and press ENTER.
8. Sub function F40.04: A fuel flow of 35 litres/min is simulated. Enter flow indicated on flow meter as decilitres/min (e.g. 360 for 36 litres/min) using the remote control. Press “#” then enter digits and press ENTER.
9. Display is now indicating “CALibr, donE” which mean that calibration is finished for that nozzle.

Steps 1 to 9 are repeated for each nozzle.

When finished, exit maintenance mode and save changes, F00=3.
4 Market & Service

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You can also visit our web-sites
www.wayne.se
www.wayne-europe.com
www.wayneuk.com

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Mal 2003-01-09 V2 - 7 - 461307
The operations of Wayne Dresser comprise four interacting parts:

- Equipment such as petrol pumps, payment terminals, point-of-sale terminals and service station operating systems.
- Software for recording and for internal communication at the station, as well as between the station and the oil company, banks and credit institutes.
- Project design with overall responsibility to the customer.
- Field service, technical support and supply of spare parts.

Wayne Dresser makes it easier for the motorist to fill up and make his motor oil purchases, while effectively meeting the needs of the service station owner for operating supervision and for conforming to the demands of the authorities on measuring accuracy, minimising pollution and ensuring safety.

Wayne Dresser produces and markets complete functioning systems for the disposal of fuel at service stations. From the development and design to efficient production and assembly of components is pursued under the authorities on measuring and ensuring safety.

Everything from development and design to efficient production and assembly of components is pursued under the authorities on measuring and ensuring safety.

Wayne Dresser is pursuing the development and marketing of complete driving control systems for service stations. Under a contract we have made it easier for the motorist to fill up, while effectively meeting the demands of the authorities on measuring accuracy, minimising pollution and ensuring safety.

The operations of Wayne Dresser comprise four interacting parts:

- Equipment such as petrol pumps, payment terminals, point-of-sale terminals and service station operating systems.
- Software for recording and for internal communication at the station, as well as between the station and the oil company, banks and credit institutes.
- Project design with overall responsibility to the customer.
- Field service, technical support and supply of spare parts.

Wayne Dresser makes it easier for the motorist to fill up and make his motor oil purchases, while effectively meeting the needs of the service station owner for operating supervision and for conforming to the demands of the authorities on measuring accuracy, minimising pollution and ensuring safety.

Wayne Dresser produces and markets complete functioning systems for the disposal of fuel at service stations. From the development and design to efficient production and assembly of components is pursued under the authorities on measuring and ensuring safety.

Wayne Dresser develops, manufactures and markets complete operating systems for fuel handling at service stations. Everything from development and design to efficient production and assembly of components is pursued under one roof.

Wayne Dresser entwicklung, produziert und vermarktet komplett funktionierende Systeme für die Abgabe von Kraftstoffen an Tankstellen. Von der Entwicklung über das Design bis zur Herstellung und Installation liefern wir alles aus einer Hand.

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## Local Authority “Compliance Effort Assessment” PPC regs

### 1. Compliance Assessment

<table>
<thead>
<tr>
<th>Incident Type</th>
<th>Possible Score</th>
<th>Score</th>
<th>BP Compliance Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Incident leading to justified complaint but no breach of permit</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Incident leading to justified complaint</td>
<td>5 per incident</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Breach of Authorisation not leading to formal Action</td>
<td>10 per incident</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Incident leading to formal Caution, enforcement notice or prosecution</td>
<td>15 per incident</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Incident leading to prohibition notice</td>
<td>20 per incident</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>Should have no breaches of the permit</td>
</tr>
</tbody>
</table>

### 2. Assessment of Monitoring, Maintenance and Records

<table>
<thead>
<tr>
<th>Monitoring Type</th>
<th>Possible Score</th>
<th>Score</th>
<th>BP Compliance Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. All monitoring undertaken to the degree required in the permit</td>
<td>0 – 10 – 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Process operation modified where any problems indicated by monitoring</td>
<td>0 – 5 – 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Documented and adhered to Maintenance programme, in line with permit</td>
<td>0 – 5 – 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Documented records as required in permit available on site</td>
<td>0 – 5 – 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. All relevant documents forwarded to the authority by the date required</td>
<td>-5 / 10 / 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 3. Assessment of Management and training responsibility

<table>
<thead>
<tr>
<th>Possible Score Y/N/Ya</th>
<th>Score</th>
<th>BP Compliance Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Documented procedures in place for implementing all aspects of the permit — are procedures in place to ensure proper management, supervision and training for process operations, proper use of equipment, and effective preventative mice on all plant and equipment concerned with emissions to air.</td>
<td>0 - 5 - 0</td>
<td>Yes - permit documentation, staff advice, system description, check records. Note for Stage 2 will be in place as required 12 June 2014.</td>
</tr>
<tr>
<td>b. Specific responsibilities assigned to individual members of staff for these procedures — are staff trained to be aware of their responsibilities under the permit.</td>
<td>0 - 5 - 0</td>
<td>Yes - Management of the site and equipment on the site related to Stage 1b and Stage 2 vapour recovery forms part of the general Responsibilities of staff related to the storage and sale of petrol and is incorporated in the overall competent person training they are required to complete. Specific additional reference material is provided in relation to Stage 2 prv in the form of an information sheet (copy provided with permit application). Repeat tasks are identified in daily / weekly check list.</td>
</tr>
<tr>
<td>c. Completion of individual responsibilities checked and recorded by the company — Does the operator maintain and make available a statement of training requirements for each operational post.</td>
<td>0 - 5 - 0</td>
<td>Yes - Daily / Weekly Site check list records retained.</td>
</tr>
<tr>
<td>d. Documented training records for all staff with air pollution control responsibilities — Does the operator keep and make available a record of the training received by each person whose actions may have an impact on the environment.</td>
<td>0 - 5 - 0</td>
<td>Yes - forms part of the general training records as noted above.</td>
</tr>
<tr>
<td>e. Trained staff on site throughout periods where potentially air polluting activities take place — Is there a competent trained person who remains near the tanker during unloading.</td>
<td>0 - 5 - 0</td>
<td>Yes - truck driver responsible for delivery under ACoP L133.</td>
</tr>
<tr>
<td>f. Is an appropriate environmental management system in place.</td>
<td>-5 - 0 - 0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Total**

---

LAPPC Compliance Effort Assessment
Ref: BP LAPPC Part B Permit Application – Attachment 9

Dear Sir/Madam

BP OIL UK LIMITED (“BP”) – LAPPC PART B APPLICATION FORMS - SIGNING AUTHORITY

BP is a substantial company with well established management structures and processes operating over three hundred filling stations and having hundreds of employees in its own right and thousands by way of subsidiaries working at the filling stations and elsewhere. BP’s management processes are such that on being appointed to a position, a BP employee will have full authority to sign contracts and licence applications on behalf of BP in the area of his or her responsibilities. Thus as “Licensing Co-ordinator” Jan Martin-Read has BP’s authority to sign Environmental Permitting Part B application forms.

Yours faithfully

Stuart Wright
Senior Licensing Co-ordinator