WARWICK DISTRICT COUNCIL

Pollution Prevention and Control Act, 1999
Environmental Permitting (England and Wales ) Regulations 2016

# Application for Permit to operate an installation for Unloading of Petrol into Stationary Storage Tanks And Filling of Vehicle Petrol Tanks

Use this form if you are applying for a permit to a Local Authority to operate a service station
For existing petrol stations with a throughput greater than 3500m3 in any 12 month period and for new petrol stations with a throughput likely to exceed 500m3 in any 12 month period, a "Stage II" petrol vapour recovery system is required for recovery of vapours during filling of vehicle petrol tanks. If the petrol station is not required to have "Stage II" controls in place, those sections of this form that relate to Stage II controls do not need to be completed.
References to the term "activity" are references to the unloading into storage of petrol and dispensing of petrol into vehicle fuel tanks. The operator of the activity under the terms of the Regulations is most likely to be the person with management responsibility for the procedures on site.

**For local authority use**

Application reference | Officer reference | Date received

**A1.1 Name of the installation** SIMON SMITH GROUP
COMPTONS GARAGE

**A1.2 Please give the address of the site of the installation**

79 RUGBY RD
CUBBINGTON
NR LEAMINGTON SPA

Postcode CV32 7HY

Telephone [redacted]

Ordnance Survey national grid reference 8 characters,
for example, SJ 123456
OUT/006572/A/20170605—113734-323

**A1.3 Existing authorisations**:
Please give details of any existing LAPC or IPC authorisation or LAPPC permit for the installation, including reference number(s): N/A

Please provide the information requested below about the "Operator", which means the person who it is proposed will have control over the installation in accordance with the permit (if granted)

**A2.1 The Operator** - Please provide the full name of company or corporate body

Trading/business name (if different) SIMON SMITH RETAIL LTD

Registered Office address 3 FAIRVIEW COURT FAIRVIEW RD CHELTENHAM
Postcode: GLOS GL52 2EX

Principal Office address (if different) PO BOX 328 NORTHWICH NR CHELTENHAM
Postcode: GLOS GL54 3XS

Company registration number 7532478

**A2.2 Holding Companies**
Is the operator a subsidiary of a holding company within the meaning of Section 736 of the Companies Act 1985?
**No** ~~Yes~~
name of ultimate holding company

Registered office address N/A
Postcode

Principal Office address (if different)
Postcode
Company registration number:

**A3.1 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 could be an agent or consultant rather than the operator.

Name BRIAN TEW
Position DIRECTOR

Address AS ABOVE
Postcode

Telephone number [redacted]
Fax number
e-mail address

**B1.2 Why is the application being made?**

- the installation is new
- ~~it is an existing Part B process authorised under the Environmental Protection Act for which a substantial change is proposed within 4 months of the transitional date and an LAPPC permit is required.~~
- ~~it is an existing installation that is required to have a "Stage II" vapour recovery system in place according to SI 2006, No. 2311.~~

**B2.1 Is the service station located under permanent living quarters or working areas?**

No ~~Yes~~

**B2.2 When was equipment for vapour collection during filling of underground storage tanks installed or when will it be installed?** DECEMBER 2016

**B2.3 When was equipment for vapour recovery during filling of vehicle fuel tanks installed or when will it be installed (only for installations that are required to have a "Stage II" vapour recovery system in place)?**
DECEMBER 2016

**B2.4. Volume of petrol unloaded into the service station in each of the last three calendar years** (See Section 2 of PG1/14(06) for the relevant timescales); in cubic metres (i.e. litres divided by 1000). Circle the appropriate band

| YEAR | VOLUME OF PETROL/ m3 | | | | |
|---|---|---|---|---|---|
| 2016 | <100 | 100-500 | 501-1000 | >1000 | >3500 |
| 2015 | <100 | 100-500 | 501-1000 | >1000 | >3500 |
| 2014 | <100 | 100-500 | 501-1000 | >1000 | >3500 |

**B2.5 Are deliveries "Driver Controlled" / "Driver Unassisted"**

~~No~~ Yes

**B2.6 At a maximum, how many tanker compartments discharge into storage tanks at any one time, or will do so once a vapour collection system is in place**. If the latter information is not known, a statement of what assessment will be made to determine this information and within what timescale. The information supplied under item 11 should be supplemented by a site specific assessment. (See Section 6 of PG1/14(06)). ONE

**B2.7 Are diesel storage tanks connected to the vapour balance system?**

No ~~Yes~~

**B2.8 Measures taken or to be taken for vapour emission control, both during unloading and in Storage.**

STAGE 1 VAPOUR RECOVERY

**B2.9 Please attach process diagrams and plans of vapour collection equipment** (including height and location of tank vent pipes). This should include equipment for recovery of vapours during filling of underground storage tanks and for installations that are required to have a "Stage II" vapour recovery system in place, for filling of vehicle petrol tanks.

FORWARDED BY BAYNSS DESIGN

SEE ATTACHMENT

**B2.10 Unloading procedure and instructions (please attach)**

SEE ATTACHED

**B2.11 Details of Supervision, Training and Qualifications of Operating Staff** [Details should be specific to on-site staff' and include general statements concerning delivery drivers]

SEE ATTACHED

**B2.12 Schedule of maintenance of vapour collection control** (Including the system for vapour recovery during filling of vehicle petrol tanks for installations that are required to have a "Stage II" vapour recovery system in place). **[please attach]**

SEE ATTACHED

**B2.13 Schedule of examination and testing for vapour collection controls** (Including the system for vapour recovery during filling of vehicle petrol tanks for installations that are required to have a "Stage II" vapour recovery system in place) **[please attach]**

SEE ATTACHED

**B2.14 Procedures or contingency measures in the event of vapour containment equipment failure** (Including the system for vapour recovery during filling of vehicle petrol tanks for installations that are required to have a "Stage II" vapour recovery system in place). **[please attach]** SEE ATTACHED

**B2.15** For petrol stations that are required to have a "Stage II" vapour recovery system in place , **a certificate to confirm conformity 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%** (i.e. that at least 85% of the displaced vapours are recovered, according to the relevant "type approval" test [see Section 5.16 of this note], expressed as the ratio of the volume of hydrocarbon vapours displaced to the volume of petrol discharged **[please attach].**

SEE ATTACHED

**B2.16** For petrol stations that are required to have a "Stage II" vapour recovery system in place , **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) **[please attach].**

SEE ATTACHED

**B2.17 For** petrol stations that are required to have a "Stage II" vapour recovery system in place , **is an 'automatic monitoring system' 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**

**B3.1 Provide an assessment** of the potential significant local environmental effects of the foreseeable emissions (for example, is there a history of complaints, is the installation in an air quality management area?)
Doc Reference: B 3.1 BT

**B3.2 Are there any sites of special scientific interest (SSSIs) or European Sites which are within 500 metres of the installation?**
**No** ~~**Yes**~~, *please give names of the sites*
*Doc Reference*

**B5 Additional information**
Please supply any additional information which you would like us to take account of in considering this application.
Doc Reference

**C1 Fees and Charges**
The enclosed charging scheme leaflet gives details of how to calculate the application fee. Your application cannot be processed unless the application fee is correct and enclosed.

**C1.1 Please state the amount enclosed** as an application fee for this installation.
£. 246 PLEASE FORWARD A RECEIPT A.S.A.P.

Cheques should be made payable to : **Warwick District Council**
We will confirm receipt of this fee when we write to you acknowledging your application.

(JUNE 30th 2017 IS OUR YEAR END AUDITORS WILL REQUIRE RECEIPT

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

**C2 Annual charges**
If we grant you a permit, you will be required to pay an annual subsistence charge, failure to do so will result in revocation of your permit and you will not be able to operate your installation.

**C2.1** Please provide details of the **address for invoices to be sent to** and details of someone we may contact about fees and charges within your finance section.

Name SIMON SMITH RETAIL LTD

Address PO BOX 328 NORTHLEACH NR CHELTENHAM GLOS
Postcode: GL54 3XS

Telephone: [redacted]

**C3 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,
- investigate possible breaches of environmental law and take any resulting action,
- prevent breaches of environmental law,
- 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, 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)

**C4 Declaration**

**C4.1 Signature of current operator(s)***

I/ We certify that the information in this application is correct. I/ We apply for a permit in respect of the particulars described in this application (including supporting documentation) I / We have supplied. Please note that each individual operator must sign the declaration themselves, even if an agent is acting on their behalf.

For the application from: SIMON SMITH RETAIL LTD

Installation name: SIMON SMITH GROUP COMPTONS GARAGE

Signature [redacted]
Name B.J TEW
Position DIRECTOR
Date 8/6/2017

Signature VA TEW
Name JVA TEW
Position Authorised by other directors
Date SD HAWKINS

* **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.

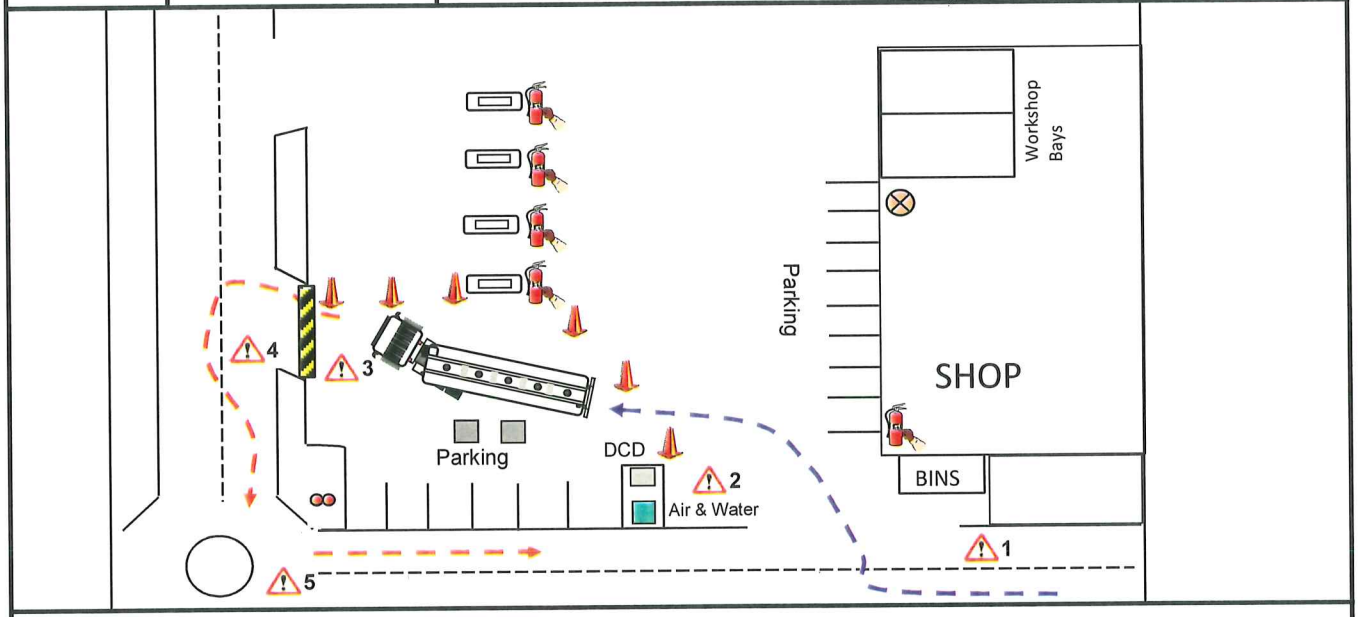
When completed this form should be returned together with any supporting documents and a cheque for the application fee made out to **"Warwick District Council"** at :-

**Health and Community Protection**
**Warwick District Council,**
**PO Box 2176 Riverside House,**
**Milverton Hill,**
**Royal Leamington Spa,**
**Warwickshire,**
**CV32 5QF**

Doc ref B3.1 BT

The new installation will only serve to IMPROVE what was in existence previously. The site is not in an air quality management area. There has not been any previous history of complaints in respect of emissions from the site.

| | | | | | |
|---|---|---|---|---|---|
| | 77 Rugby Road, New Cubbington, Leamington Spa, CV32 7HY, 01926 423477 | CUSTOMER NAME: | Comptons Garage | TERMINAL: | Kingsbury |
| | | SHIP TO: | 10019141 | DRWG NO: | KIN 10019141 |
| | | LOCATION: | New Cubbington | REV. NO: | 2 |
| | DCD | TRUCK TYPE: | 44t Articulated | DATE: | 20.01.2017 |




**Driver Roles & Responsibilities.** **Call S/Stn with ETA window. Enter site per site plan, approach site slowly and take note of parked vehicles within the forecourt, moving cars, pedestrians entering/leaving shop. Cordon off unloading area with cones, ensure fire extinguishers are readily available.**

1 Caution crossing oncoming traffic to access site
2 Beware of vehicles in parking area and on forecourt
3 Lift barriers to exit site
4 Caution invading opposite lane of traffic to egress
5 Caution take space at island turning left, mindful of vehicles at junction

**LEGEND:**

ACCESS — BARRIER
EGRESS — ISOLATOR SWITCH
VENTS
HAZARDS — FIRE EXT.

**Site Access Blocked Actions:**
**Up to mini-island, turn right. At next island turn right. At 2nd island turn right and return to site**

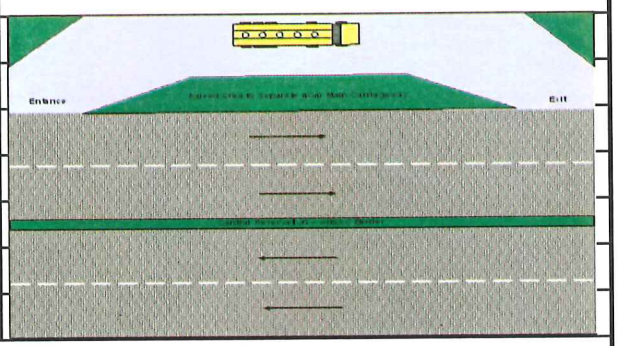
| TANKS | 1 | 2 | 3 | 4 | | |
|---|---|---|---|---|---|---|
| PRODUCT | ULG | V-GAS | DIES | V-DIE | | |
| CAPACITY | 58,200 | 14,550 | 58,200 | 14,550 | | |
| TANKS | | | | | | |
| PRODUCT | | | | | | |
| CAPACITY | | | | | | |

## Routing:

1 From M42 J6 take A45 towards Coventry
2 Take slip road for A452, turn right at R/B towards Kenilworth
3 Continue on A452 through Balsall Common and Kenilworth towards Leamington Spa
4 Go over A46, turn left at next R/B towards Cubbington
5 Continue for approx 2 miles, site is on right at 3rd R/B
6 Enter via 1st entrance, manlids on left in front of parking bays

## Safe Haven Parking Instruction:

No safe haven parking on route - only garage itself.



## Alternative Routing Instructions:

If your primary route is blocked you must call HCC and advise them of your planned alternative route.

M42 south onto M40 south, exit at j15 turn left onto A46 towards Coventry. At A452 junction turn right onto A452 towards Leamington. At first island turn left towards Cubbington, straight over 2 islands. Site comes up on left.

| Date | Rev | By Whom | Changes/Comments |
|---|---|---|---|
| 20.01.17 | 2 | M Barkes/G. Parmar | Update site schematics (approved by GP) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

37 Lombard Street, Lichfield, Staffordshire WS13 6DP

Tel: 01543 415994 Email: info@bayliss-design.co.uk

Bayliss Design

LTR/006572/A/2

18 May 2017

Peter Lawson
Snr. Environmental Health Officer
Warwick District Council
Environmental Services
Riverside House
Milverton Hill
Royal Leamington Spa
CV32 5HZ

Dear Mr Lawson,

**Your Ref: PML/54**
**Permit to operate an installation for the unloading of petrol nto stationary tanks at Comptons Garage, 77 Rugby Road, Cubbington. (Your Ref: PML/54)**

Further to your correspondence dated 5th May 2017, to our Client and operator of the above site, Simon Smith Retail Ltd.

We are pleased to enclose a copy of the respective drawings and specification for the fuel system, underground tanks and ventilation system installed as part of the sites development for information and records.

We trust this addresses your concerns in respect of the Vapour Recovery Systems both stage 1B and Stage II respectively.

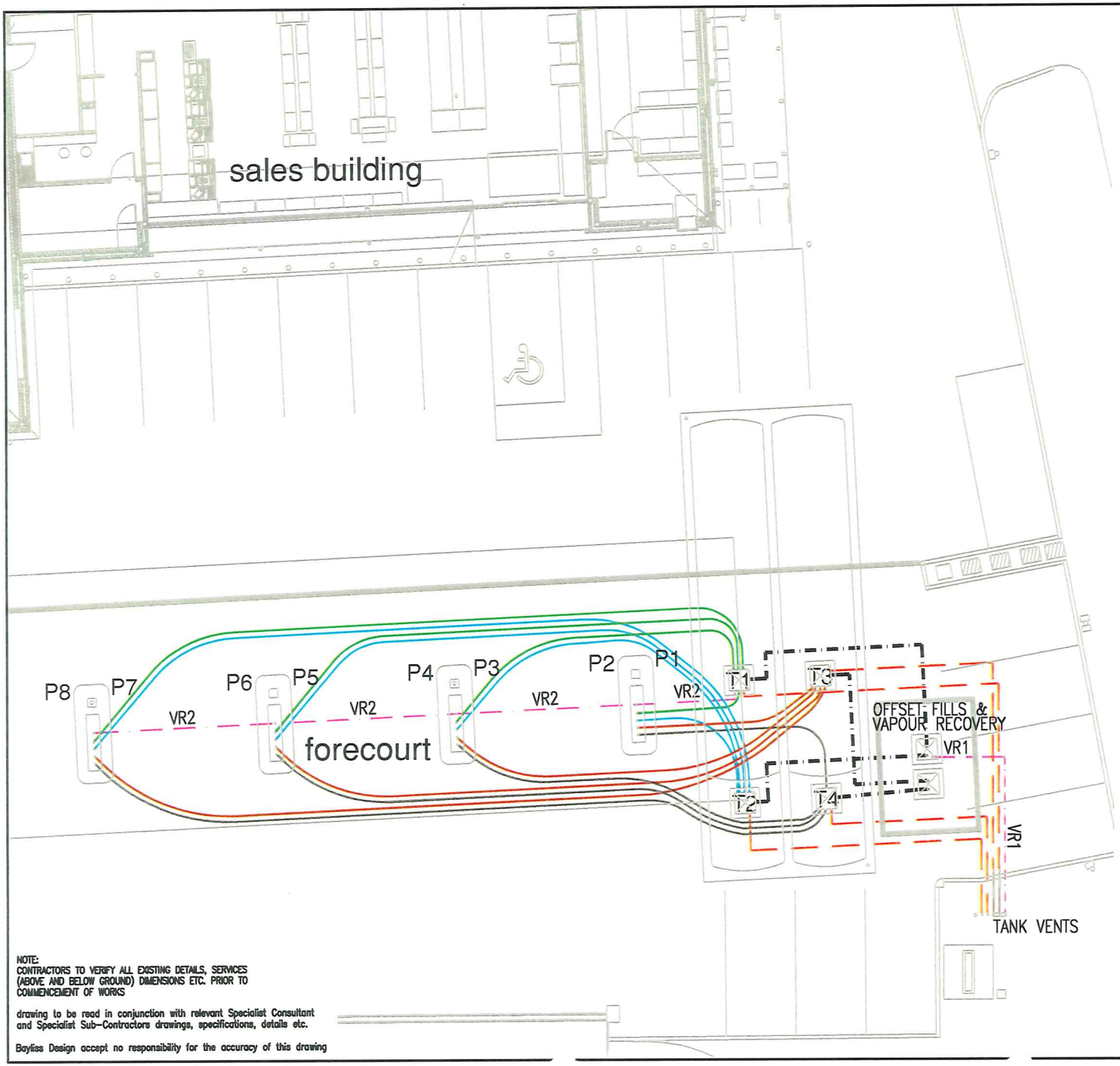
We believe our aforementioned Client will contact you direct in respect of training provided to the staff on site.

If you require any further information please do not hesitate in contacting us.

Yours sincerely

[redacted]

pp Stephen Smith
Junior Architectural Technologist
Bayliss Design




## KEY–FUEL INSTALLATION

LINE KEY

- OFFSET FILL PIPE
- DIESEL SUCTION PIPE
- VPOWER DIESEL SUCTION PIPE
- UNLEADED SUCTION PIPE
- VPOWER UNLEADED SUCTION PIPE
- TANK VENT PIPE
- STAGE 1+2 VAPOUR RECOVERY

fuel pipework lines indicative only

## TANK SCHEDULE

| No | Nom. Capacity | | Safe Working Capacity | Contents | Pumps |
|---|---|---|---|---|---|
| T1 | 60000 LTRS | | 58200 LTRS | UNLEADED | ALL PUMPS |
| T2 | 15000 LTRS | | 14250 LTRS | VP–UNLEADED | ALL PUMPS |
| T3 | 60000 LTRS | | 58200 LTRS | DIESEL | ALL PUMPS |
| T4 | 15000 LTRS | | 14550 LTRS | VP–DIESEL | ALL PUMPS |

S.W Cap = safe working capacity (97%) exact value to be advised by tank supplier, Wefco (Gainsborough) Ltd. 01427 611000

IMPORTANT NOTE:
this drawing should NOT be used for locating pipes, tanks or any such underground/buried service.
this drawing is diagrammatical ONLY

The fuel system pipework was installed & certified by BDP Installations Ltd. (+44 (0) 1744 334 347)

NOTE:
CONTRACTORS TO VERIFY ALL EXISTING DETAILS, SERVICES (ABOVE AND BELOW GROUND) DIMENSIONS ETC. PRIOR TO COMMENCEMENT OF WORKS

drawing to be read in conjunction with relevant Specialist Consultant and Specialist Sub–Contractors drawings, specifications, details etc.

Bayliss Design accept no responsibility for the accuracy of this drawing

| Rev. | Date | Description | Chk |
|---|---|---|---|
| - | DATE | AMENDMENT | INITIALS |

Est. 1956

# TANK 2 PUMP

Drawing Title
TANK TO PUMP DIAGRAM

Client
SIMON SMITH GROUP

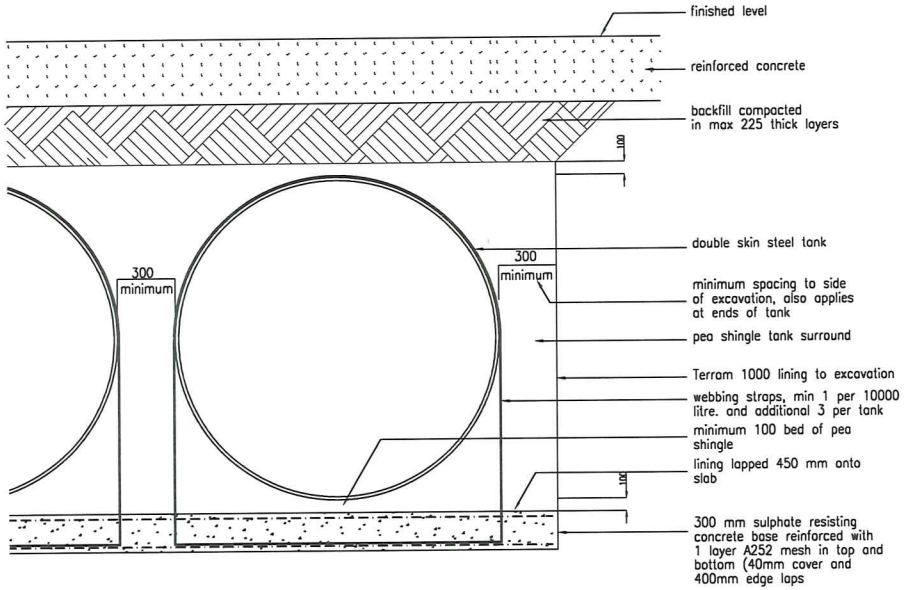
Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY

| Drawn | Scale | Date |
|---|---|---|
| RB | NTS | 09/01/17 |

| Contract No. | Drawing No. | Revision | Size |
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| 6572 | T2P | - | A3 |

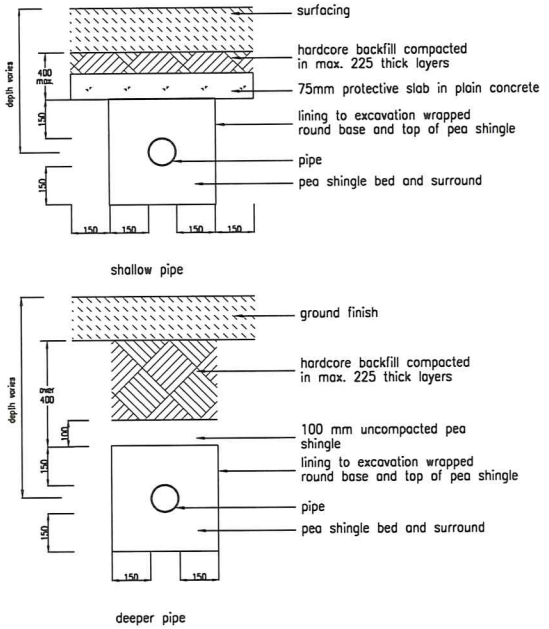
Bayliss Design
Tel: 01543 415594 Email: info@bayliss-design.co.uk
33 Eastwood Road, Lichfield, Staffordshire, WS13 6DP

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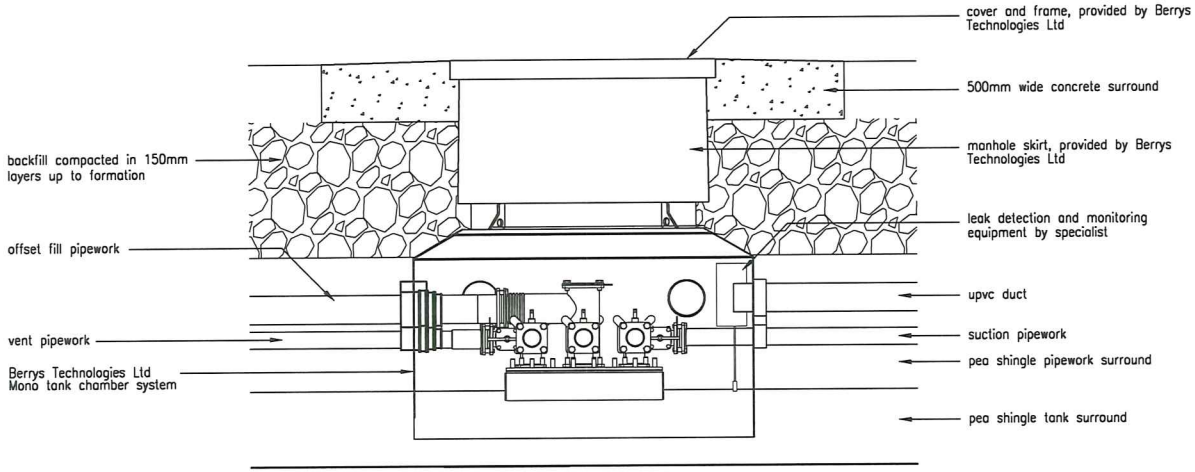



cross section through tanks

Note to Contractor
back fill to tank surround in maximum 300mm layers
water fill tanks to provide ballast, following 2nd layer of backfill




fuel pipework installation




tank access chamber, frame and cover

| Rev. | Date | Description | Chk |
|---|---|---|---|
| - | DATE | AMENDMENT | INITIALS |

Drawing Title
BUILDING - UNDERGROUND TANK DETAILS

Client
SIMON SMITH RETAIL LTD

Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY

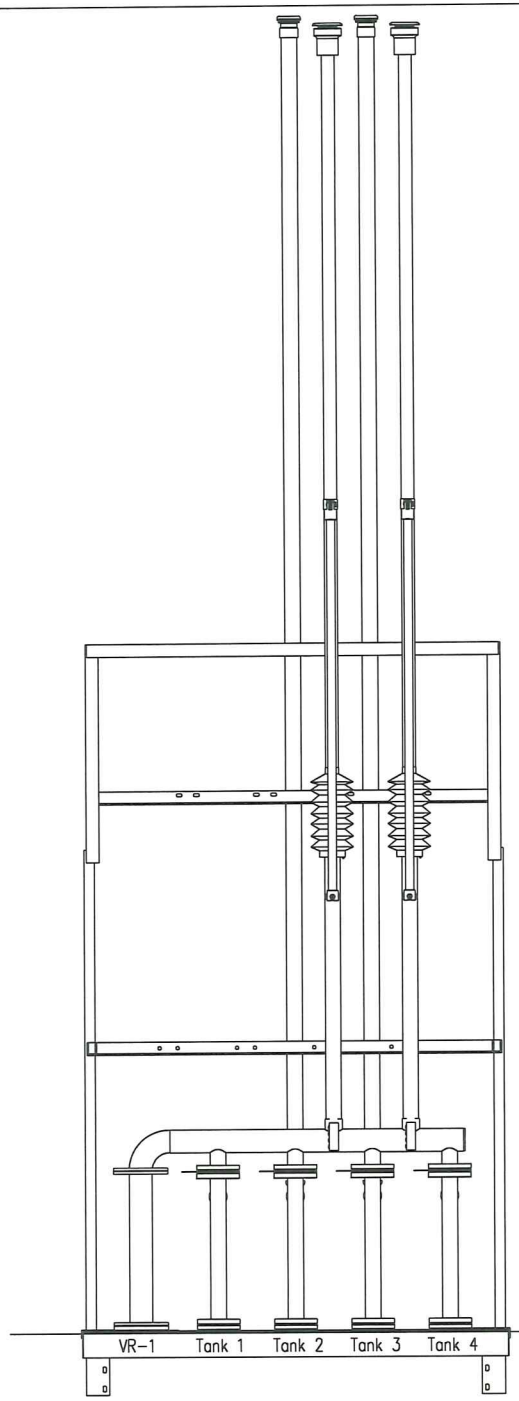
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| BD | 1:20 | 07/02/2017 |

| Contract No. | Drawing No. | Revision | Size |
|---|---|---|---|
| 6572 | AB-10 | - | A1 |

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37 Lombard Street, Lichfield, Staffordshire, WS13 6DP
Tel: 01543 415941 Email: info@bayliss-design.co.uk

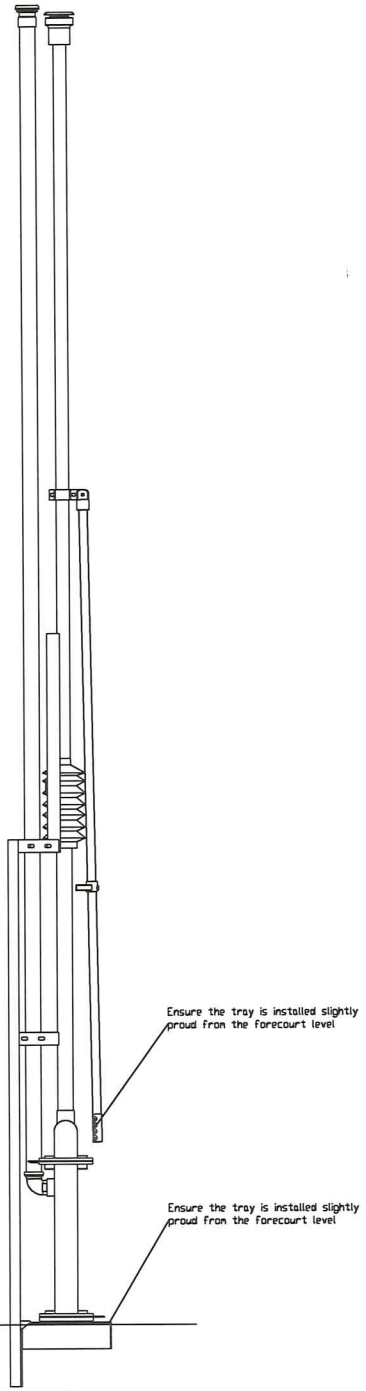
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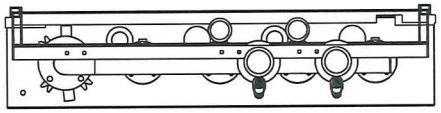

Front Elevation

"Ventmaster"

Berrys Technologies Limited
141 Lichfield Road,
Aston, Birmingham,
B6 5SP
Tel: 0121 558 4411
Email: enquiries@berrys.com




Side elevation/section



Plan

| Rev. | Date | Description | Chk |
|---|---|---|---|
| - | DATE | AMENDMENT | INITIALS |

Drawing Title
BUILDING - TANK VENT DETAILS

Client
SIMON SMITH RETAIL LTD

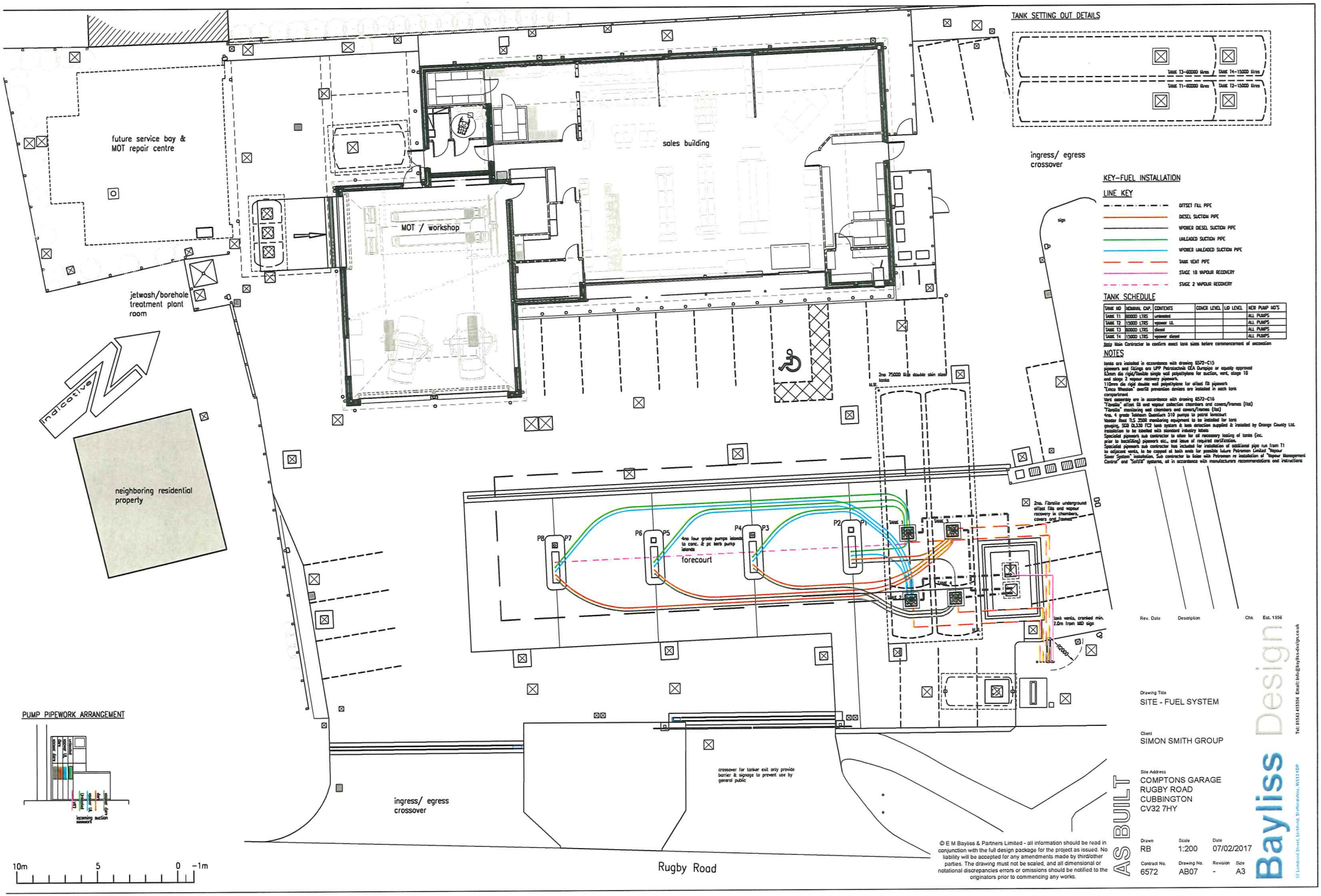
Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY

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| Drawn | Scale | Date |
|---|---|---|
| BD | 1:10 | 07/02/2017 |

| Contract No. | Drawing No. | Revision | Size |
|---|---|---|---|
| 6572 | AB-11 | - | A1 |

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Rev. Date Description Chk Est. 1956

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Drawing Title
SITE - FUEL SYSTEM

Client
SIMON SMITH GROUP

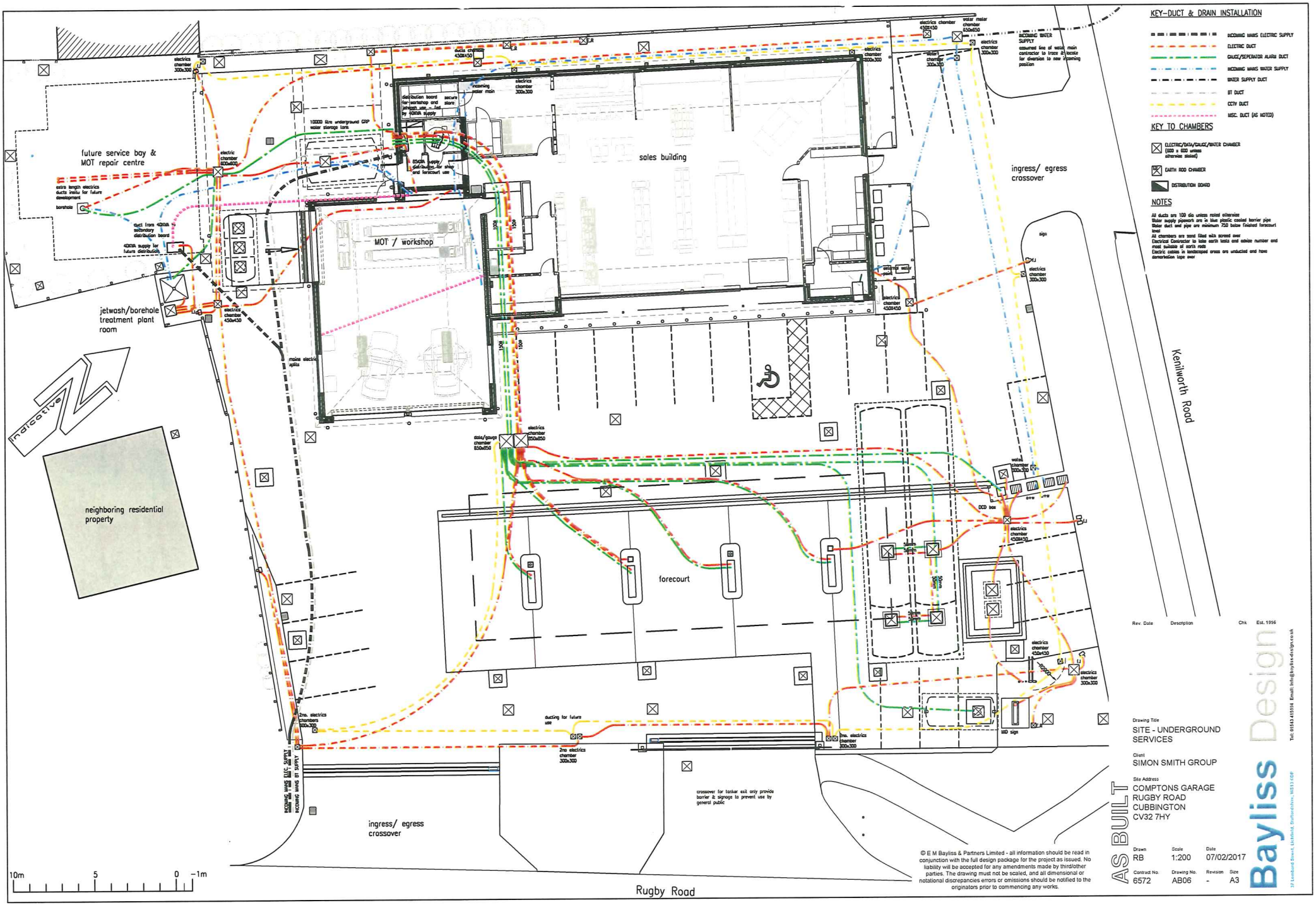
Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY

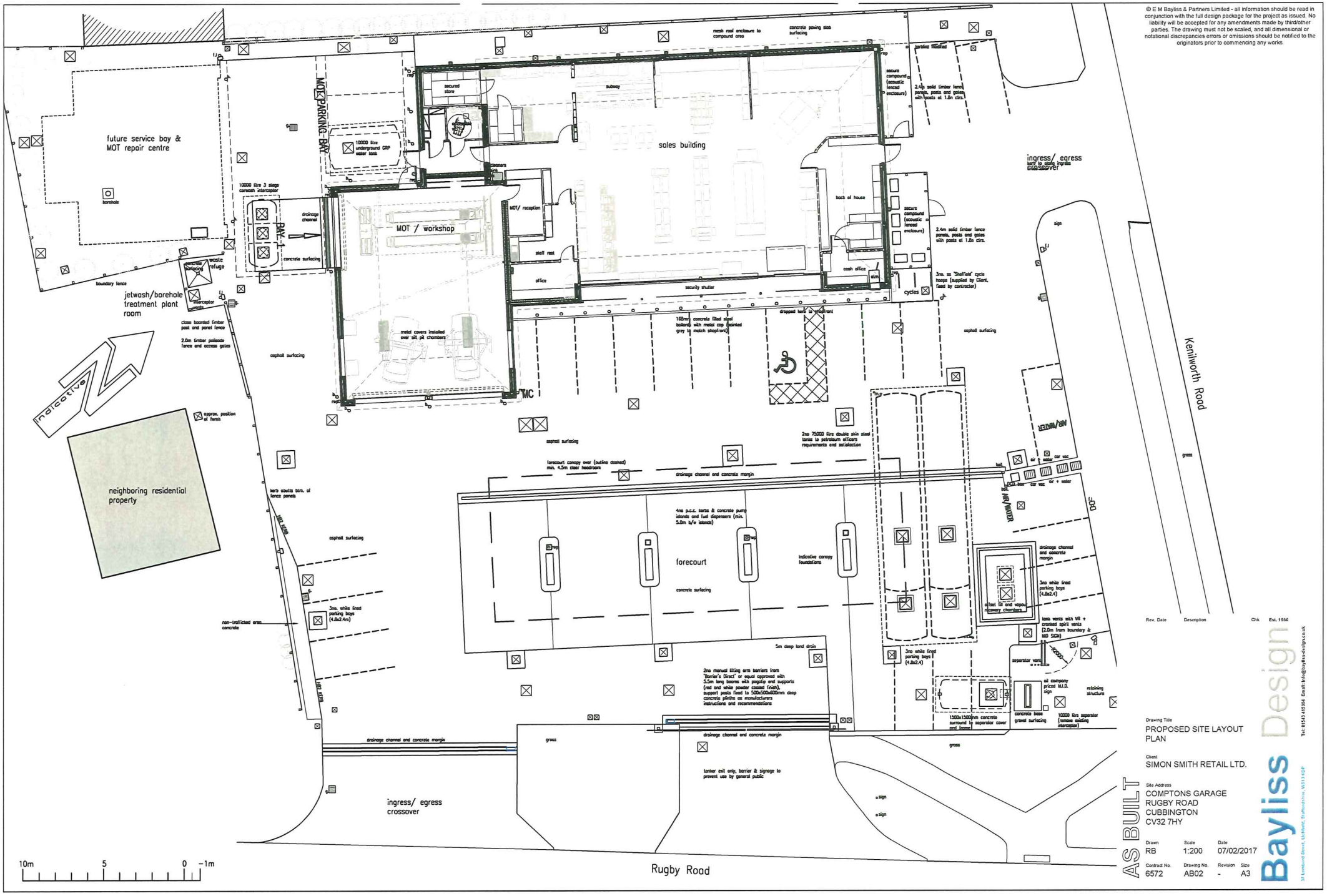
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| RB | 1:200 | 07/02/2017 |

| Contract No. | Drawing No. | Revision | Size |
|---|---|---|---|
| 6572 | AB07 | - | A3 |

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Tel: 01543 415934 Email: info@bayliss-design.co.uk
37 Lombard Street, Lichfield, Staffordshire, WS13 6DP


KEY-DUCT & DRAIN INSTALLATION
INCOMING MAINS ELECTRIC SUPPLY
ELECTRIC DUCT
GAUGE/SEPERATOR ALARM DUCT
INCOMING MAINS WATER SUPPLY
WATER SUPPLY DUCT
BT DUCT
CCTV DUCT
MISC. DUCT (AS NOTED)
KEY TO CHAMBERS
ELECTRIC/DATA/GAUGE/WATER CHAMBER (600 x 600 unless otherwise stated)
EARTH ROD CHAMBER
DISTRIBUTION BOARD
NOTES
All ducts are 100 dia unless noted otherwise
Water supply pipework are in blue plastic coated barrier pipe
Water duct and pipe are minimum 750 below finished forecourt level
All chambers are sand filled with screed over
Electrical Contractor to take earth tests and advise number and most suitable of earth rods
Electric cables in landscaped areas are unducted and have demarkation tape over
future service bay & MOT repair centre
MOT / workshop
sales building
jetwash/borehole treatment plant room
neighboring residential property
forecourt
ingress/ egress crossover
ingress/ egress crossover
Kenilworth Road
Rugby Road
indicative
AS BUILT
Rev. Date Description Chk Est. 1956
Drawing Title
SITE - UNDERGROUND SERVICES
Client
SIMON SMITH GROUP
Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY
Drawn RB
Scale 1:200
Date 07/02/2017
Contract No. 6572
Drawing No. AB06
Revision -
Size A3
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| Rev. | Date | Description | Chk |
|---|---|---|---|

Est. 1956

AS BUILT

Drawing Title
PROPOSED SITE LAYOUT PLAN

Client
SIMON SMITH RETAIL LTD.

Site Address
COMPTONS GARAGE
RUGBY ROAD
CUBBINGTON
CV32 7HY

| Drawn | Scale | Date |
|---|---|---|
| RB | 1:200 | 07/02/2017 |

| Contract No. | Drawing No. | Revision | Size |
|---|---|---|---|
| 6572 | AB02 | - | A3 |

Bayliss Design
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ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

# Certificate No. 85 A/L 2.2

Industrie Service

The TÜV SÜD Test Body for Vapour Recovery Systems, Westendstr. 199, D- 80686 Munich, certifies having conducted tests as specified in the following code:
**„Measurement and test methods for the assessment of vapour recovery systems on filling stations – VDI 4205"**
on the following vapour recovery system:

| | |
|---|---|
| Fuel –hose nozzle: | **ELAFLEX ZVA 200 GRV3 / ELAFLEX ZVA SLIMLINE 2 GRV3** |
| Hose: | **ELAFLEX Conti Slimline 21/8 Coax** |
| A / L regulator valve[1]: | **ASCO,** Type **EMXX** with control board: "Tokheim SAS" Type **ECVR – SCS** – self calibrating |
| Vapour valve[2]: | **ELAFLEX GRV3** is attached to the fuel hose nozzle |
| Vapour recovery pump: | **Dürr, MEX 0831-10 / MEX 0831-11 / MEX 0544** |

Test results:

| | |
|---|---|
| A / L | **99,4 %** at volumetric fuel-flow rate 40l/min Proportionality in case of lower volume rates is within the allowed range as defined in the code (VDI 4205-4) |
| Average Efficiency[3] | **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: | **Not necessary** | |

Germany

Munich, 07/18/2007

Issue: 12/21/2009

TÜV SÜD Industrie Service GmbH

The officially authorized expert

Peter Szalata

Peter Szalata

[1] Regulates air (vapour) to liquid ratio
[2] opens the vapour path during liquid flow
[3] According to VDI 4205 in normal and 45° position using VW Polo as reference car under realistic fuelling conditions.

TÜV®

sira
Certification Service

1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 04ATEX9170U

4 Component: Vapour Recovery System Modules

5 Applicants: Tokheim UK Ltd and Tokheim Sofitam Applications

6 Address: Unit 3 Baker Road
West Pitkerro Industrial Estate
Dundee DD5 3RT
Scotland

Route de Soliers
14540
Grentheville
France

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R53M11448A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured with reference to the following document:

EN 13617-1:2004

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

Ex II 1/2 G

D R Stubbings BA MIEE
Certification Manager

Project Number 53M11448
Date 1 November 2004
C. Index 09

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Sira Certification Service is a service of Sira Test & Certification Ltd

**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE** Sira 04ATEX9170U

13 **DESCRIPTION OF COMPONENT**

The vapour recovery system module is designed to fit into the hydraulic cabinet and frame of existing, liquid fuel dispensers and are intended to recover fuel vapour emitted from the nozzle during dispensing and return it to the storage tank. They comprise:

- a vapour pump, with associated flame arresters, powered by a motor, both of which are suitably certified and rated
- a filter unit
- suitably certified and rated control valves
- copper pipework and associated joints
- a splitter unit fitted to the outlet pipe

The vapour recovery system module is configured to suit the associated dispenser such that existing dispenser zoning is not compromised. The module requires a vapour recovery hose to EN 13483 and a suitably certified vapour recovery nozzle to be fitted.

Where pipework and/or cabling passes through existing vapour barriers, the characteristics of the barrier are maintained by using suitably rated cable glands.

The modules are controlled by: **VFM (Vapour Flow Module)** - signals from the existing pulser and an in-line vapour meter are processed by electronics mounted in the dispenser head to control the activation and flow of the vapour system. An in-line damping vessel is fitted to maintain system accuracy.
**ECVR (Electronically Controlled Vapour Recovery)** - signals from the existing pulser are processed by electronics mounted in the dispenser head to control the activation and flow of the vapour system.

**Design Options**

- the following devices may be fitted to the vapour return line, dependent on local regulations:
  - shear valve
  - non-return valve
  - manual isolation valve
  - flame arrester assembly
- two modules may be powered from a single motor
- a vapour line pressure gauge may be fitted

14 **DESCRIPTIVE DOCUMENTS**

14.1

| Drawing No. | Sheet | Rev. | Date | Title |
|---|---|---|---|---|
| 900704-035 | 1 to 9 | A | 16 Aug 04 | Vapour recovery systems - compliance details |
| 900704-036 | 1 to 3 | A | 16 Aug 04 | System hardware. |
| 900704-037 | 1 of 1 | A | 16 Aug 04 | System schematics |
| 900704-038 | 1 of 1 | A | 16 Aug 04 | Component test rig. |
| 900704-042 | 1 of 1 | A | 02 Sep 04 | Marking plate |

14.2 Report number R53M11448A

Date 1 November 2004

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## SCHEDULE

## EC TYPE-EXAMINATION CERTIFICATE

Sira 04ATEX9170U

15 **SPECIAL CONDITIONS FOR SAFE USE**

15.1 The units shall be installed with suitably certified liquid fuel dispensers with the following modified fittings:

- vapour recovery hose to EN 13483
- vapour recovery nozzle to EN 13617-2

15.2 Any pipework, joints and modifications to vapour barriers within the associated dispenser shall maintain compliance with the requirements of the equipment certificate; the existing equipment zoning shall not be compromised as a result of the fitting of this component.

15.3 The installation of this component shall be installed such as to not obstruct or compromise the existing ventilation of its associated dispenser.

15.4 When fitted in a dispenser, the electrical supply to this component shall not compromise the safety and control functions of the equipment, cognisant of the dispenser's rating and overload values.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in report number R53M11448A.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The electrical circuit of each unit shall be subjected to the routine electrical tests required by Annex A.9.2, A.9.3 and A.9.4 of EN 13617-1:2004.

Date 1 November 2004

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1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 00ATEX9219X** Issue: **10**

4 Equipment: **Quantium 500T Liquid Fuel Dispenser**

5 Applicant: **Tokheim UK Limited** **Tokheim Sofitam Applications**

6 Address:

Unit 3 Baker Road
West Pitkerro Industrial Estate
Dundee
DD5 3RT
UK

Route de Soliers
14540
Grentheville
France

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 13617-1: 2004

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

II 2G
EN 13617-1

Project Number 59M16476
C. Index 09

C Ellaby
Certification Officer

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13 **DESCRIPTION OF EQUIPMENT**

The Quantium 500T liquid fuel dispenser is a multi-product device for dispensing petrol and diesel on a garage forecourt. The Quantium 500T is a 'hose cassette' design, that utilises a fabricated steel frame clad with steel panels to form a hydraulic housing, hose cassette and display control unit.

The hydraulic housing contains up to five hydraulic circuits, each comprising an electrically driven pumping unit, metering unit, electrically actuated flow control valves and interconnecting pipework. The outlet pipes are connected to suitable dispensing hoses and are fitted with a nozzle and optional dry break coupling(s). When the nozzles are not in use, they are stored in a nozzle boot. Removing and replacing the nozzle in the nozzle boot activates and deactivates the dispenser. This operation is controlled using a spring loaded lever and magnet (nozzle flap) to actuate a proximity switch.

Fuel vapour is isolated and vented from the hydraulic circuit by means of a vapour separator and flame arrester arrangement. Gaps between the external panels provide ventilation for the hydraulic housing. In addition the, ventilation for the type 2 vapour barrier utilised with the Quantium 500T dispenser is provided by means of a louvered panel.

The display control unit is mounted in a safe area that is created by head positioning and appropriate vapour barriers. The unit is electrically connected to pulsers and switches in the hydraulic housing via a type 2 vapour barrier. All electrical components in the hazardous zones are suitably certified and the cabling is also appropriate for use in fuel dispensers, as specified in the schedule drawings. All electrical circuits, metallic parts and the metalwork of the enclosure are electrically bonded to earth.

**Design options**

- Alternative rating of electrical circuits up to 440 V 3-phase.
- Alternative High Flow variant 10 $m^3$/ h (nominal) utilising two meter units.
- The flow rate, for attended use only, to be increased, through a single meter, up to 10$m^3$/hour for Class 1 fuel.
- Omission of any of the hydraulic circuits and consequent reduction in the frame length.
- The substitution of the 'type 2' barrier at the base of the existing card reader enclosure by a 'type 1' barrier.
- The extent and fabrication of the existing 'type 1' barrier to be modified, consequently, the need for IP 54 seals in the space box and calculator head is removed.
- The use of an alternative, 'full height' hose cassette/retractor housing; the retractor tension arm being eliminated.
- Alternative Satellite dispenser arrangement. This arrangement is used to fuel large vehicles with fuel tanks on either side and consists of a 'satellite' dispenser linked to and fed from, a 'host' dispenser via an underground fuel line. The satellite dispenser has no electrically driven components other than a nozzle out and side select switches and an optional display module powered from the host via an underground cable. The host dispenser is fitted with a satellite selection switch in the display head.
- The replacement of the 'Type 2' vapour barriers by 'Type 1' barriers; the display unit may be moved down to be mounted directly above the hydraulic housing.
- Alternative vapour recovery variant, the dispenser being fitted with a vapour recovery system as Sira 04ATEX9170U.
- Alternative submersible pump variant, the housing having the pump and associated motor omitted. A suitable shear valve is fitted at the dispenser inlet pipe.
- The option to use an alternative Nozzle Boot.
- The option to use a Fuel Temperature Measurement System as Sira 06ATEX9074U.

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- The manufacture of the dispensers without hoses and nozzles being fitted.
- The use of the equipment for dispensing ethanol blended fuels <85%> or 100%.
- The addition of a second hydraulic cabinet on the opposite side of the hose cassette.

The hydraulic housing contains up to two hydraulic circuits, each comprising an inlet shear valve, a filter unit, a vapour separator vessel, a meter, a differential valve and interconnecting pipework. Manual and electrical valves are provided to enable isolation and flow control. Non-return valves and excess pressure (flow) valves maintain the circuit integrity. A pressure gauge is fitted to enable system pressure to be monitored. The outlet pipe passes into the hose cassette and is connected to a suitable dispenser hose. The hose is fitted with a breakaway coupling and dispensing nozzle. The component parts and system configuration is shown on Tokheim drawing No. 90111-003 sheet 1.

Fuel is delivered to the dispenser by a remote LPG pump. Vapour is separated from liquid in the separator vessel, the vapour being returned to the storage tank. Positive liquid/vapour pressure of approximately 1 bar is maintained by the differential valve fitted at the meter outlet. Normal operating pressure is dependent on tank and temperature conditions, and is between 7 and 15 bar. The maximum system pressure is 25 bar and safety valves are set to vent at 23 bar.

The nozzles are located in suitable boots fitted on both sides of the hose cassette and actuate proximity switches as they are removed or replaced. The hose are fitted with sprung retractor assemblies. Delivery is only maintained whilst a manual 'dead man's switch', fitted to the cassette, is activated

**Variation 1:** This variation introduced the following changes:

i. The hydraulic housing has alternative overall dimensions, the method and materials of construction remained un-altered.

ii. The substitution of the 'type 2' barrier at the base of the existing card reader enclosure by a 'type 1' barrier.

iii. The extent and fabrication of the existing 'type 1' barrier was modified, consequently, the need for IP 54 seals in the space box and calculator head is removed.

iv. The use of alternative panel fabrications and consequent modifications to the ventilation methodology were permitted.

**Variation 2:** This variation introduced the following changes:

i. The use of an alternative, 'full height' hose cassette/retractor housing was permitted; the retractor tension arm being eliminated.

ii. The panel design was revised, the IP23 rating being maintained.

iii. The vapour barrier arrangements between the hose cassette, electronics enclosure and hydraulic housing was modified, the electronics enclosure remaining in the safe area.

iv. The provision of ventilation was re-designed.

**Variation 3:** This variation introduced the following changes:

i. An alternative payment terminal was fitted, consequently, the frame and cladding was modified; the payment terminal remains in a non-hazardous area.

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**Variation 4:** This variation introduced the following changes:

i. An alternative 'Radiant' payment terminal was fitted, consequently, the frame and cladding was modified; the payment terminal enclosure is larger than the existing type and may be partially in the designated hazardous area in some variants, additional cables may be routed as a separate cable or into the existing junction box.

**Variation 5:** This variation introduced the following changes:

i. The use of a vapour recovery system as detailed in Sira 04ATEX9170U was permitted.

ii. Minor drawing corrections and clarifications were introduced.

**Variation 6:** This variation introduced the following changes:

i. The option to use a revised pumping unit housing, including a revised Collector Unit and SIB Control Valve, was permitted. Designated either EPZ Pumping Unit or TQP Pumping Unit.

ii. The option to use a revised Meter Unit Housing was permitted. Designated either TM80 Meter Unit or TQM Meter Unit.

iii. The option to use an alternative Nozzle Boot was permitted.

iv. The option to use a Fuel Temperature Measurement System, Sira 06ATEX9074U, was permitted.

**Variation 7:** This variation introduced the following changes:

i. The dispensers may be manufactured without hoses and nozzles being fitted.

ii. The equipment may be used for dispensing ethanol blended fuels <85%> or 100%.

iii. The dispenser was updated to EN 13617-1:2004.

**Variation 8:** this variation introduced the following changes:

i. The introduction of the combined petrol and LPG option, in consequence, special conditions for safe use clauses 15.4 and 15.5 and conditions of certification clauses 17.10 and 17.11 have been introduced.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report no. | Comment |
|---|---|---|---|
| 0 | 23 May 2001 | R53M7452A | The release of prime certificate. |
| 1 | 17 December 2001 | R53M8382A | The introduction of Variation 1. |
| 2 | 15 May 2003 | 53V10273 | The prime certificate was re-issued to add the name and address of a second applicant and to correct clause 17.5. |
| 3 | 15 May 2003 | R53M10804A | The introduction of Variation 2. |

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**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE** **Sira 00ATEX9219X**
**Issue 10**

| Issue | Date | Report no. | Comment |
|---|---|---|---|
| 4 | 12 May 2005 | R53M12635A | The introduction of Variation 3, variation 1 and 2 were also re-issued to recognise the re-issue of the prime certificate dated 15 May 2003 and correct a typographical error. |
| 5 | 22 July 2005 | R51M13312A | The introduction of Variation 4. |
| 6 | 12 August 2005 | R51V13819A | The introduction of Variation 5. |
| 7 | 9 August 2006 | R51M13900A | The introduction of Variation 6. |
| 8 | 3 May 2007 | R51M16088A<br>R51M16088B | This Issue covers the following changes:<br>• All previously issued certification was rationalised into a single certificate, Issue 8, Issues 0 to 7 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.<br>• The introduction of Variation 7; these changes introduced special conditions for safe use, therefore, an 'X' suffix was added to the certificate number.<br>• The certificate was rationalised to include changes to the product description and modify the list of descriptive documents. |
| 9 | 30 August 2007 | R59M17063A | The introduction of a new special condition concerning the use of the dispenser in respect of zoning. |
| 10 | 31 August 2007 | R59M16476A | The introduction of Variation 8. |

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 Where a dispenser is supplied without hoses and/or nozzles, they shall be fitted in accordance with:

Hoses: EN 1360 or EN 13483
Nozzles: EN 13012.

15.2 When used for ethanol dispensing, the fuel specification must be <85%> or 100% with minimum water content.

15.3 These metering pumps and dispensers are designed for use in the open air. Where a metering pump or dispenser is positioned within a building, incorporated into an enclosure or integrated into a larger piece of equipment, additional measures shall be taken to ensure that the zoning diagrams illustrated in the schedule drawings are not compromised.

15.4 When used for dispensing LPG, the dispenser shall be supplied from a remote pressure source not exceeding 25 bar.

15.5 When used for dispensing LPG, a vapour return path to the storage tank shall be provided.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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## 17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The electrical circuit of each unit shall be subjected to the routine electrical tests required by clause 6.2.1 of EN 13617-1:2004.

17.4 The hydraulic circuit of each unit shall be subjected to the routine hydraulic tests required by clause 6.2.2 of EN 13617-1:2004.

17.5 Components or apparatus specified for use with the dispenser defined as suitably certified shall be selected with due regard to the latest current standards and technical information.

17.6 When a payment terminal uses forced cooling, the manufacturer shall prove that the external hazardous atmosphere cannot be drawn into the enclosure.

17.7 The Stage II vapour recovery system, when fitted to the dispenser, shall be installed in accordance with the special conditions for safe use contained within Sira 04ATEX9170U.

17.8 When intended for use with ethanol blended fuels, the manufacturer shall assess the suitability of parts used in the construction of the fuel containment system for long-term suitability to ethanol blended fuels. Due regard should be placed on the use of corrosion inhibitors in the fuel mixture.

17.9 When used for dispensing ethanol blended fuels the manufacturer shall give due consideration to the correct selection of supplementary fittings (safe breaks etc.). Where such fittings are not provided as part of the assembly, suitable guidance should be provided in the equipment instructions.

17.10 The hydraulic circuit of each Automotive LPG fuel dispenser shall be subjected to one of the following pressure tests; there shall be no leakage during the test:

- Tested at 1.1X the maximum working pressure (27.5 bar) with pressure relief valves removed. The pressure gauge may be removed for this test.
- Tested at 0.9X the relief valve opening pressure (22.5 bar) with the pressure relief valves fitted.

In both cases, it shall be confirmed that the working pressure of the relief valves does not exceed 25 bar.

17.11 The electrical circuit of each type of Automotive LPG fuel dispenser shall be subjected to the routine electrical tests required by clause C.1 of EN 14678-1:2003.

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# Certificate Annexe

**Certificate Number:** Sira 00ATEX9219X

**Equipment:** Quantium 500T Liquid Fuel Dispenser

**Applicant:** Tokheim UK Limited
Tokheim Sofitam Applications

sira CERTIFICATION

**Issues 0 to 7**

The drawings associated with these Issues were replaced by those listed in Issue 8.

**Issue 8**

| Drawing No. | Sheet | Rev. | Date | Title |
|---|---|---|---|---|
| 900704-001 | 1 to 17 | D | 29 Dec 06 | Quantium 500T Dispenser Range |
| 900704-002 | 2 to 8 | B | 24 Apr 03 | Labels |
| 900704-003 | 1 of 1 | A | 08 Dec 00 | Drip Tray Sealing |
| 900704-004 | 1 to 8 | B | 28 Aug 06 | Hydraulic Components |
| 900704-005 | 1 to 5 | A | 08 Dec 00 | Circuit Diagrams |
| 900704-006 | 1 of 1 | B | 28 Aug 06 | Energy Isolation |
| 900704-007 | 1 to 2 | B | 28 Aug 06 | Nozzle Boots |
| 900704-008 | 1 to 3 | A | 08 Dec 00 | Hydraulic Schematics |
| 900704-009 | 1 & 2 | B | 23 Jun 06 | Pumping Units |
| 900704-010 | 1 to 2 | A | 08 Dec 00 | Meters |
| 900704-040 | 1 to 5 | A | 04 Jun 06 | Alternative hydraulic stack |
| 900704-053 | 1 of 1 | B | 23 Jun 06 | Nozzle Holder Assembly |
| 900704-064 | 1 of 1 | 1 | 23 Jun 06 | Test Rigs |
| 900704-017 | 1 of 3 | A | 04 Sep 01 | "Quantium 500 T" Variation No 1 ("Quantium 500"). |
| 900704-017 | 2 of 3 | A | 04 Sep 01 | "Quantium 500 T" Variation No 1 ("Quantium 500"). |
| 900704-017 | 3 of 3 | A | 04 Sep 01 | "Quantium 500 T" Variation No 1 ("Quantium 500"). |
| 900704-031 | 1 to 10 | A | 12 Aug 03 | Modification to Quantium 500T |
| 900704-048 | 1 to 6 | A | 19 Oct 04 | Quantium 500T - alternative payment terminal arrangements |
| 900704-055 | 1 to 12 | A | 05 Jul 05 | Quantium 500T - alternative 'Radiant' payment terminal arrangements |
| 900704-021 | 1 of 1 | A | 08 Oct 02 | Modified EPZ pumping unit |
| 900704-074 | 1 & 2 | A | 31 Oct 06 | Ethanol dispensing details |

**Issue 9**

No new drawings were introduced.

**Issue 10**

| Drawing No. | Sheet | Rev. | Date | Title |
|---|---|---|---|---|
| 903111-023 | 1 to 3 | A | 21 Mar 07 | Q500T Combined petrol and LPG Dispenser. |

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ ЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

# Zertifikat Nr. Ü-12.2

TÜV SÜDDEUTSCHLAND

Die Prüfstelle für Gasrückführungssysteme des TÜV Süddeutschland, Kompetenzzentrum Tankanlagen, Westendstr. 199, D-80686 München, bescheinigt die Prüfung einer automatischen Überwachungseinrichtung für aktive Gasrückführungssysteme an Tankstellen gemäß § 3 Abs. 5 der 21. BImSchV.

- Typ Bezeichnung: **TOKHEIM ECVR - SCS** in Verbindung mit der Gasrückführungssteuerung **TOKHEIM VRC3** Software 3.00 und dem Zapfsäulenrechner **TOKHEIM WWCT1**
- Hersteller: **TOKHEIM Europe & Africa**
  Industrieweg 5
  5531 AD Bladel
  The Netherlands
- System:
  Gasdurchflussmesser: Statische Messeinheit **TOKHEIM-VFM** zwischen dem Zapfventil und der Gasrückführungspumpe in der Gasrückführungsleitung

  Messauswertung: Auswertung des Gasflusses, Bewertung und Alarmmeldung in der Gasrückführungssteuerung **TOKHEIM VRC3**.
  Erzeugung des Abschaltsignals im Zapfsäulenrechner **TOKHEIM WWCT1**.

Die Prüfungen ergaben, dass die Anforderungen nach 21. BImSchV § 3 Abs. 5 und dem Merkblatt 1 Teil 2 erfüllt werden.

Diese automatische Überwachungseinrichtung mit Selbstkalibrierungsfunktion ist für aktive TOKHEIM Gasrückführungssysteme in TOKHEIM Zapfsäulen für den Einbau in neue Zapfsäulen geeignet.

München, den 21.05.2003

Technische Überwachung • Bayern • TÜ 12

Der Sachverständige

Peter Szalata

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ ΕΡΓΑΤΗΓΑΒ ◆ CERTIFICADO ◆ CERTIFICAT

# Zertifikat Nr. Ü-12.2-2

TÜV SÜDDEUTSCHLAND

Die Prüfstelle für Gasrückführungssysteme des TÜV Süddeutschland, Kompetenzzentrum Tankanlagen, Westendstr. 199, D-80686 München, bescheinigt die Prüfung einer automatischen Überwachungseinrichtung für aktive Gasrückführungssysteme an Tankstellen gemäß § 3 Abs. 5 der 21. BImSchV.

- Typ Bezeichnung: **TOKHEIM VR-Monitoring** in Verbindung mit der Gasrückführungssteuerung **TOKHEIM VRC3** Softwareversion 3.01
- Hersteller: **TOKHEIM Europe & Africa** Industrieweg 5 5531 AD Bladel The Netherlands
- System: Gasdurchflussmesser: Statische Messeinheit **TOKHEIM-VFM** zwischen dem Zapfventil und der Gasrückführungspumpe in der Gasrückführungsleitung

Messauswertung: Die Auswertung des Gasflusses, Bewertung und Alarmmeldung sowie Erzeugung des Abschaltsignals erfolgen in der Gasrückführungssteuerung **TOKHEIM VRC3**.

Die Prüfungen ergaben, dass die Anforderungen nach 21. BImSchV § 3 Abs. 5 und dem Merkblatt 1 Teil 2 erfüllt werden.

Diese automatische Überwachungseinrichtung ist für aktive Gasrückführungssysteme geeignet.

München, den 21.05.2003

Technische Überwachung • Bayern • TÜ 12

Der Sachverständige

Peter Szalata

(2286)

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III(5)a

# AMENDMENT TO CERTIFICATE

**Certification No 2286 Amendment 48**

Submitted by: **Tokheim UK Limited**
**Unit 3 Baker Road**
**West Pitkerro Industrial Estate**
**Dundee**
**DD5 3RT**

Authorisation is hereby given by the Secretary of State for Trade and Industry for the following certificate of approval relating to a pattern of a liquid flow meter to be amended as described below.

This approval is extended to include the addition of the following authorised alternative:-

**Modified assisted vapour recovery system**

As described in amendment 12 of the certificate but having the following alternatives:

- the electronic control valve described in the first paragraph may be any suitable alternative
- alternative layout using a Durr vacuum pump (Figures 1 & 2)

Signatory: **M A Bokota**
for Chief Executive
National Weights and Measures Laboratory
Department of Trade and Industry
Stanton Avenue
Teddington
Middlesex
TW11 0JZ
United Kingdom

Reference No: T1117/0027/2
(STD 7144)

Date: 28 February 2007

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## CONTINUATION OF AMENDMENT TO CERTIFICATE

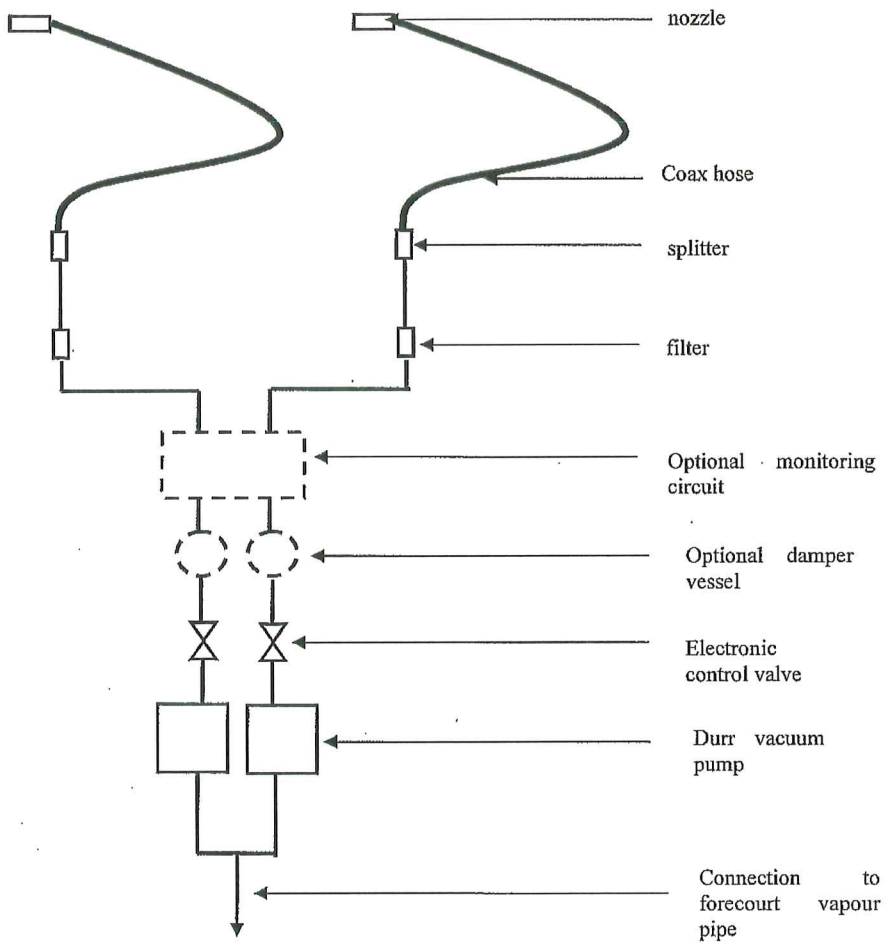



**Figure 1 Vapour recovery system schematic**

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## CONTINUATION OF AMENDMENT TO CERTIFICATE

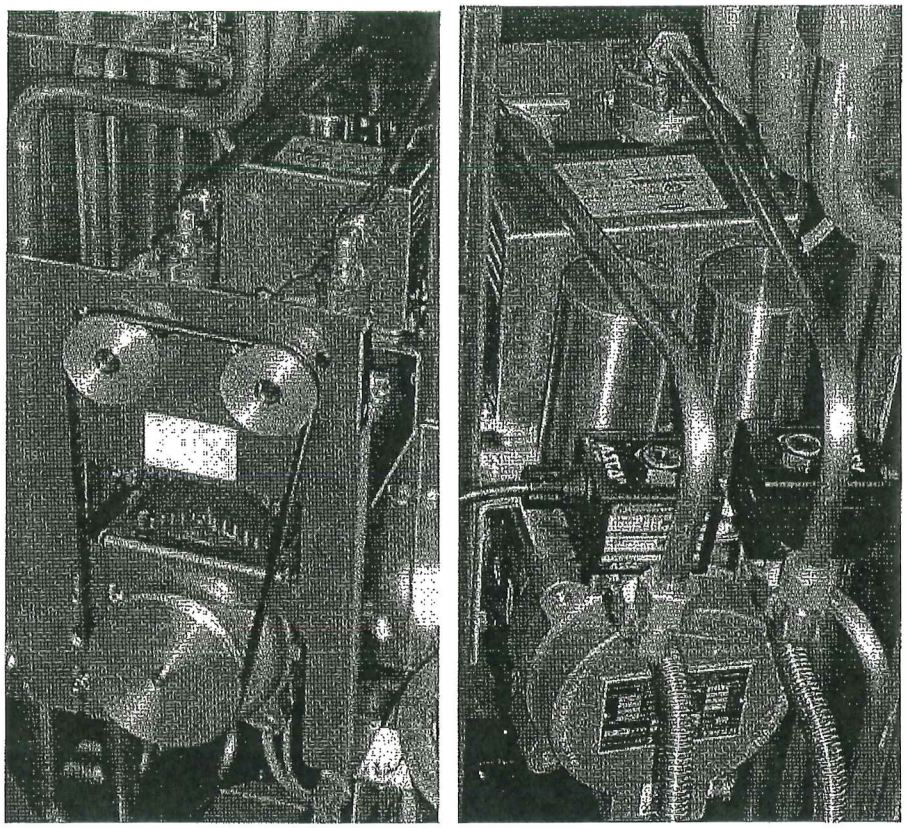


**Figure 2 Typical installation of vapour recovery system**

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AFSC Association of Forecourt Systems Contractors

# SAFETY METHOD STATEMENT

**Issue No 1** **Approved** **Statement No SERV/041**

**Date June 2008** **Reviewed** **Page No 1 of 3**

**Next Review date – June 2011**

## TASK

Retro-Fit Vapour Recovery (Stage 2) to existing dispensers.

## LOCATION

Clients premises

## TOOLS AND EQUIPMENT

Standard Engineering Tools Pipework
Barriers/Cones
Warning Signs
Fire extinguisher(s).
Calibrated measuring can.

The engineer(s) shall store tools and equipment within the company vehicle or dedicated on site storage facility. If necessary and with the client permission equipment maybe stored in a safe place on the site. The engineer(s) shall ensure that tools and equipment do not obstruct any other operation on site.

## PROTECTIVE CLOTHING

Overalls
Safety Footwear
Hard hat
Gloves
High Visibility Clothing.

Protective clothing will be worn as appropriate.

## SEQUENCE AND METHOD OF WORK

a) The engineer is to introduce himself/herself to the client or site representative
b) Obtain information regarding any unusual safety requirements or instructions for the site or day
c) Carry out a specific risk assessment
d) Present SMS and any specific risk assessment details to the client or representative and discuss his/her proposed works.
e) Complete clearance certificates and obtain signatures, if appropriate
f) Establish work area and cordon off the same
g) Implement isolation procedures if necessary

## AFSC SAFETY METHOD STATEMENT

h) Make safe any hazards
i) Contact site staff to obtain details of the fault
j) Diagnose and rectify the problem according to specific fault finding and repair instructions for the faulty unit
k) Test the equipment for correct operation
l) Inform the site staff that the work is complete
m) Complete paperwork and obtain signatures
n) Complete site register if appropriate.

### POSSIBLE HAZARDS

Personal injury from vehicle movements
Personal injury from electrocution
Personal injury by trapping in machinery
Risk of cuts and injury
Personal injury while manual handling

### PRECAUTIONS TO REDUCE HAZARDS

Erect exclusion zone using barriers and warning signs. Park vehicle defensively. Wear fluorescent garment at ALL times.

Disconnect and isolate all supplies to unit, locking off where possible. Place warning signs as appropriate.

Correct manual handling techniques are to be employed whilst working with full measuring cans. The engineer must ensure that all of the handles on the cans are operating correctly. The fuel should be returned to closest tank possible.

The fuel should be returned to the tanks using a suitable sized funnel that has been securely located in the fill pipe. The engineer shall ensure that his access to the manhole chamber or fill pipe is no impeded. Offset fill pipe covers are to be replaced after each return of fuel.

Tie back long hair and secure loose clothing. Ensure unit is safe before attending to or inspecting moving mechanical parts.

Carry fluorescent tubes in approved containers, and wear gloves and goggles as appropriate. Only use appropriate, well-maintained tools.

Observe good manual handling methods – see AFSC Health and Safety Guidance for Engineers

## AFSC SAFETY METHOD STATEMENT

### DETAILS OF ISOLATIONS

The engineer shall indicate where any fuses on the main electrical distribution board have been turned off – for example by labelling "DANGER DO NOT SWITCH ON" or similar. The engineer shall restore the power and remove the label on completion of work.

If a submerged pump supplies the dispenser, activate safety shear valve before beginning work.

### DISPOSAL OF MATERIALS

All waste or contaminated materials will be disposed of safely and legally in conjunction with company and clients procedures. All test product to be returned to fuel tanks if possible

### OUTSIDE AUTHORITIES

Trading Standards Authority if seals broken.
Petroleum Officer.

| Type of System | Tests Required (post-commissioning) | Frequency |
|---|---|---|
| Active system *WITH* automatic monitoring *( Tokheim SCS )* | Vapour containment integrity | 3 years |
| | Vapour recovery effectivness (V/P ratio) | 3 years |
| Active system WITHOUT automatic monitoring | Vapour containment integrity | 3 years |
| | Vapour recovery effectivness (V/P ratio) | Annual |
| | Functionality Check | Weekly |
| Other systems | Vapour containment integrity | 3 years |
| | Vapour recovery effectivness (V/P ratio) | Annual |
| | Functionality Check | Weekly |

Tokheim UK Ltd, Unit 1, Baker Road, West Pitkerro Industrial Estate,
Dundee DD5 3RT, Scotland, Tel: +44 (0) 1382 483500 Fax: +44 (0) 1382 731835
Email: sales@dundee.tokheim.com Website: www.tokheim.com

## Electronically Controlled Vapour Recovery – Self Calibrating System

## Site Operator Instructions

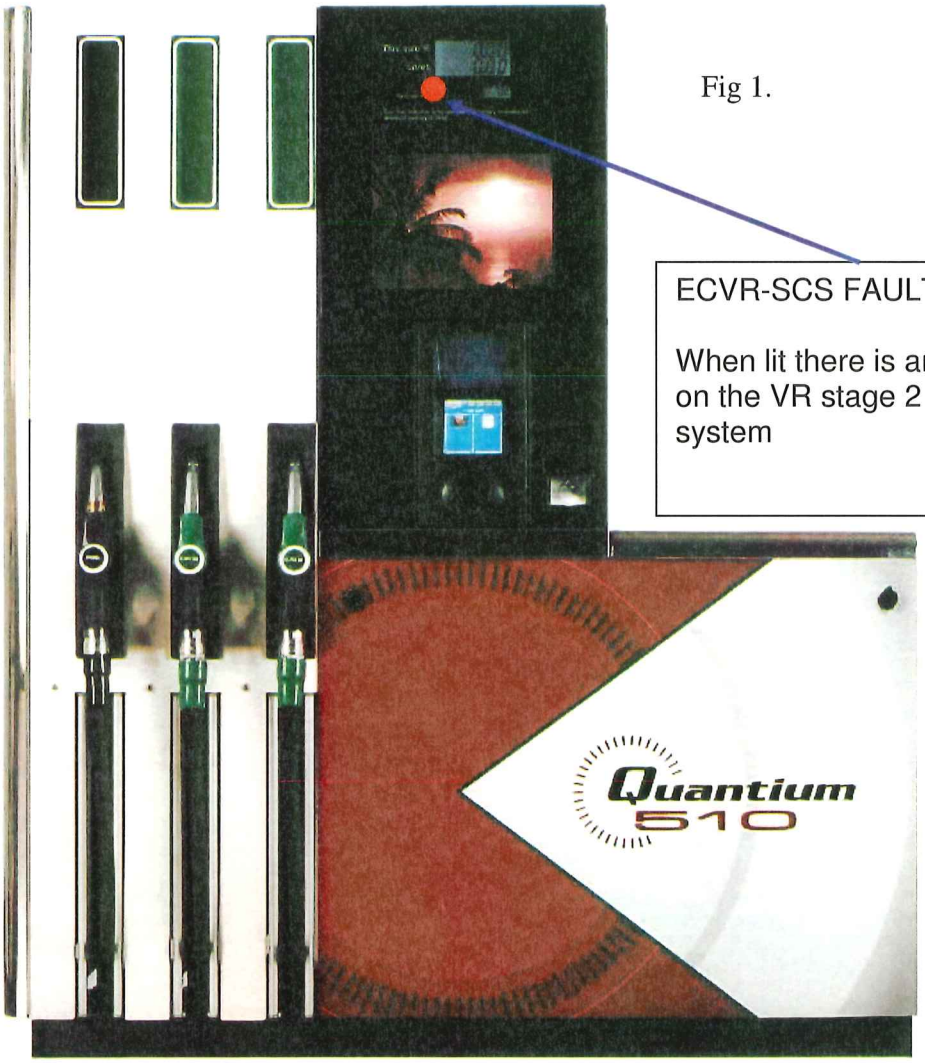
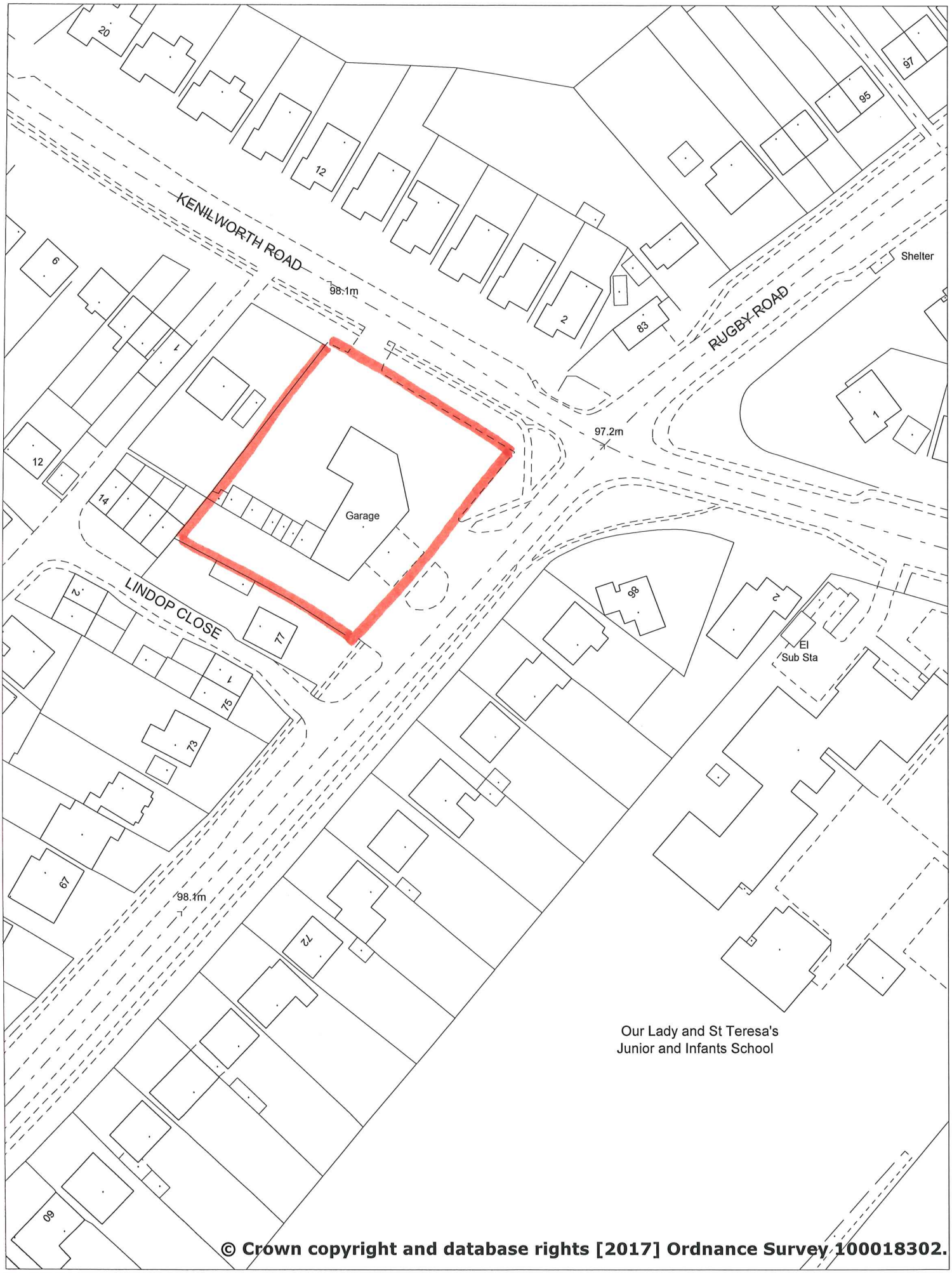



Fig 1.

1. The Vapour Recovery Stage 2 should be checked daily.
2. Ensure there are no red LED lit on the main Display as Fig 1.
3. This should be checked on both sides of the Dispenser.
4. If the Red LED is on, the VR system has recorded an error and the shutdown timer has started. Please call your service provider to establish cause of error and return system to normal operation.
5. With no intervention, the affected nozzles will become inoperable after 168 hours (7 days).

**TOKHEIM HELPDESK: CALL 01382 483500**




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WARWICK DISTRICT COUNCIL

**IPPC Permit Comptons Garage Rugby Road**

Scale: 1:1000 @A4 Drawn By: pml

Date: 18 July 2017

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Riverside House, Milverton Hill, Royal Leamington Spa, Warwickshire. CV32 5HZ Tel: 01926 410410