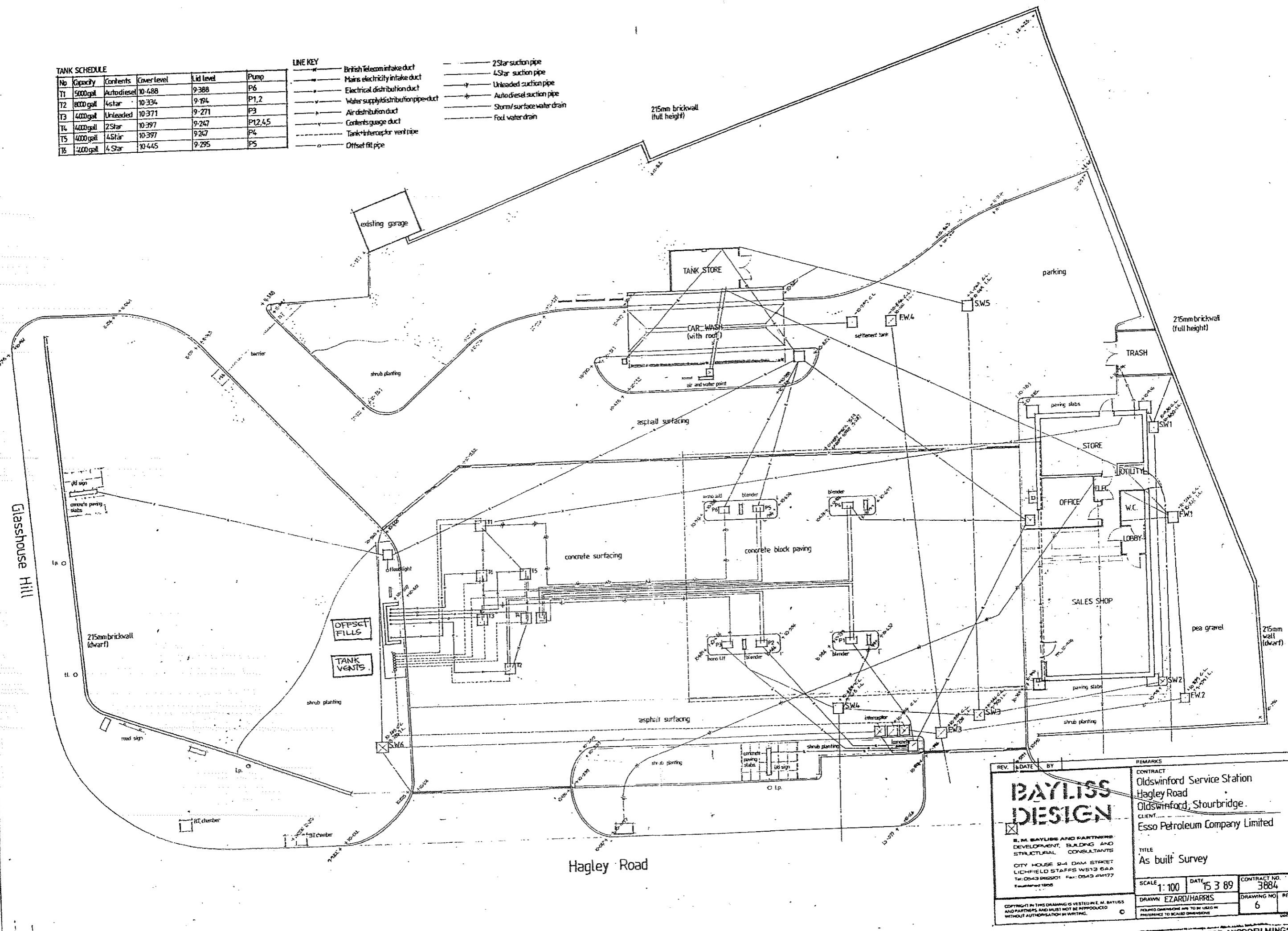


TANK SCHEDULE

No	Capacity	Contents	Cover Level	Lid Level	Pump
T1	5000 gal	Autodiesel	10-488	9-388	P6
T2	8000 gal	4star	10-334	9-294	P1,2
T3	4000 gal	Unleaded	10-371	9-271	P3
T4	4000 gal	2Star	10-397	9-247	P12,4,5
T5	4000 gal	4Star	10-397	9-247	P4
T6	4000 gal	4Star	10-445	9-295	P5

LINE KEY

- British Telecom intake duct
- Mains electricity intake duct
- Electrical distribution duct
- Water supply/distribution pipe/duct
- Air distribution duct
- Contents gauge duct
- Tank/interceptor vent pipe
- Offset fill pipe
- 2Star suction pipe
- 4Star suction pipe
- Unleaded suction pipe
- Auto diesel suction pipe
- Storm/surface water drain
- Foul water drain



BAYLISS DESIGN		REMARKS	
E. M. BAYLISS AND PARTNERS DEVELOPMENT, BUILDING AND STRUCTURAL CONSULTANTS CITY HOUSE 2-4 DAM STREET LICHFIELD STAFFS WS13 6AA Tel: 0543 882201 Fax: 0543 881777 Established 1908		CONTRACT Oldswinford Service Station Hagley Road Oldswinford, Stourbridge. CLIENT Esso Petroleum Company Limited TITLE As built Survey	
SCALE 1:100	DATE 15 3 89	CONTRACT NO. 3884	
DRAWN EZARD/HARRIS		DRAWING NO. 6	REV.
COPYRIGHT IN THIS DRAWING IS VESTED IN E. M. BAYLISS AND PARTNERS AND MUST NOT BE REPRODUCED WITHOUT AUTHORIZATION IN WRITING.			

Application for Authorisation Environmental Protection Act 1990, Part I

*Public
Register
Copy*

Section A: General Information

1. Name and address of premises where process is/will be carried out

Oldswinford Service Station, 127 Hagley Road, Oldswinford, Stourbridge, West Midlands

Post Code DY8 1RD

Telephone Number 01384 440500

**Contact Name Stephen McCarthy
Position Licensee**

2. Name and address of applicant[s]

Esso Petroleum Company Ltd, Esso House, Ermyn Way, Leatherhead, Surrey

Post Code KT22 8UX

Telephone Number See Item 5

**Contact Name See Item 5
Position See Item 5**

3. Name and address of registered office (if applicable). In the case of partnerships, names and home addresses of the partners.

Esso Petroleum Company Ltd, Esso House, Ermyn Way, Leatherhead, Surrey

Post Code KT22 8UX

Telephone Number See Item 5

**Contact Name See Item 5
Position See Item 5**

4. Name of the ultimate holding company (if applicable)

Exxon Corporation, 5959 Colinas Boulevard, Irving, Texas, USA

5. Address for correspondence if different from (1) above

Michael G Wigmore RIBA, Kevin Neary Associates

Phoenix House, 215b & 217b High Road

Benfleet, Essex, SS7 5HZ

Telephone 01268 794388

6. Enclose a map / plan with the application showing the location where the process is/will be carried out. Where the process is/will be carried out on only part of the premises please indicate the exact location on the plan enclosed.

Drawing No. 3884/6

7. Is the service station located under permanent living quarters or working areas? See Clause 9

YES **NO**

8. When was vapour balancing equipment installed or when will it be installed?

1996

Section B: Process and Control Information

9. Volume of petrol unloaded into the service station in each of the last three calendar years (see Clause 9 of this Note for the relevant timescales); in cubic metres (i.e. litres divided by 1000). Circle the appropriate band

YEAR	VOLUME OF PETROL / m ³			
	<1000	100 – 500	501 – 1000	>1000
1995	<1000	100 – 500	501 – 1000	>1000
1996	<1000	100 – 500	501 – 1000	>1000
1997	<1000	100 – 500	501 – 1000	>1000

10. Are deliveries “Driver Controlled”

YES	NO
----------------	----

11. At a maximum, how many tanker compartments discharge into storage tanks at any one time, or will do so once a vapour balancing 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 Clause 17).

Three (excluding Diesel)

12. Measures taken or to be taken for vapour emission control, both during unloading and in storage

Stage 1 Vapour Recovery

13. Please attach process diagrams and plans of vapour balancing equipment (including height and location of tank vent pipes)

Drawing No. STD 113 D

14. Unloading procedure and instructions (please attach)

See Esso ‘Blue Book’ Esso Management of Motor Fuels for Retailers and their Staff.

All to be in accordance with the Petroleum Licence Conditions and the Carriage of Dangerous Goods by Road Regulations 1992 and HS(a) 41.

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

The Site Manager/Licensee/Agent has undergone training by Esso Petroleum Co Ltd in relation to Petroleum Product Deliveries and Regulations and has a certificate to this effect in turn selected members of staff are trained by him/her and listed as approved for supervising deliveries.

16. Schedule of maintenance of vapour balancing controls [please attach]

All Vapour Balancing Controls are maintained on an annual schedule by specialist Engineers.

The P & V valves are replaced every three years.

This is recorded in the Site Register.

17. Schedule of examination and testing for vapour balancing controls [please attach]

**The Vapour Balancing Controls, couplings, seals, lines and signage are examined and tested on a yearly basis.
This is recorded in the Site Register.**

18. Procedures or contingency measures in the event of vapour containment equipment failure. [please attach]

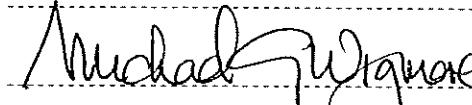
**No deliveries will be made until the failure has been rectified.
An Unsatisfactory Delivery Conditions Report (UDCR) is made out by the Delivery Technician and reported to the Specialist Engineer.
This is recorded in the Site Register.**

You may also supply any other information you wish the Local Authority to take into account when considering your application.

I hereby certify that I am authorised to sign this application and all the information contained in this application is correct to the best of my knowledge and belief.

Name (BLOCK CAPITALS): MICHAEL G WIGMORE

Signature

 Date 30.10.1998

Designation Agent for Esso Petroleum Co Ltd

Fee attached (cheque payable to Dudley Metropolitan Borough Council).

£ £100.00



ATTACH 1 P.1

GILBARCO LIMITED
Installations (South)
Crompton Close,
Basildon,
Essex, SS14 3BA
Telephone: 01268 533090
Fax: 01268 522581

REPORT ON 1 B VAPOUR BALANCE SYSTEMS FOR ESSO PETROLEUM LTD.

The objective of this report is to show that stage 1b systems with both High level and Low level manifolds to Esso standards operate correctly and further that for a given standard type, the system will be capable of handling three delivery hoses at one time without loss of vapour to atmosphere.

The tests were carried out at six nominated service stations. [See Appendix 1] . The test procedure followed the general recommendations of the joint IP/APEA guidelines (section 9 vapour emission control).

In order that the test be considered valid a very accurate means of pressure measurement is required, Gilbarco employed our precision tank test system which is capable of monitoring in real time down to .0001 bar.

In broad terms the test procedure is as follows [See Appendix 2]

Check that P/V valve does not open below 35mb.
Connect and commence offloading one compartment of tanker. Do not connect vapour return.
Pressure will build within balance system and equalise.
Maintain pressure for a period to ensure system is sound.
Connect vapour hose. Complete first compartment offload .
Connect three hoses. Offload compartments. Time offloading.
Monitor pressures to ensure P/V valve does not operate.

Results, averaged were as follows: [Results in detail Appendix 3]

	Max equalising pressure	Max running pressure with three hoses	Speed of delivery with three hoses
High level manifolds to Esso Standard STD114	45.7 mb	29.2 mb	1345 lpm
Low level manifolds to Esso Standard C(98)05	34.4mb	11.4 mb	1245 lpm

Conclusions [Appendix 4]

In every case the pressure developed during normal running was insufficient to operate the site P/V valve, showing that the system as designed is capable of meeting the criteria set out above. However, at Danbury, a High Level version with a long vapour collection line, initial pressures could indicate operation of the p/v valve. Therefore, care needs to be exercised in the planning of vapour collection lines. Longer lengths give rise to initial pressure peaks.

K S Holmes
UK Installation Manager. 2nd June 1997



P:

GILBARCO LIMITED
Installations (South)
Crompton Close,
Basildon,
Essex, SS14 3BA
Telephone: 01268 533090
Fax: 01268 522581

Report on Stage 1b vapour balance systems for Esso Petroleum Ltd.

APPENDIX 2

TEST PROCEDURE.

This test requires a very accurate means of pressure measurement. The system used will monitor in real time down to .1mb (.0001bar)

Check P/V valve for accuracy. Pressure opening at 35mb. Vacuum opening at -2mb.

The procedure on site was as follows:

Tanker arrived and connected one compartment ready to offload.

The vapour hose was connected to the tanker but not to the collection point.

The pressure monitor was placed at the vapour return valve to form part of the collection line.

The compartment commenced offloading. Pressure built up within the system eventually stabilising.

[This is shown as Max equalising pressure]

Discharge from the tanker stopped and the pressure was held showing no apparent leaks in the system..

The vapour line was connected and compartment discharge completed.

Three compartments were then connected and offloading commenced.

This sequence was timed. The total for the compartments being divided by time to show speed of delivery in litres per minute.

The pressure monitor was constantly observed and readings noted at one minute intervals.

On some sites, where a fourth compartment was available, this was added into the delivery once one of the original three had completed.

P.5



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[APPENDIX 3 PAGE 2]

SPEED OF DELIVERY WITH THREE HOSES.

These figures are based on time elapsed from commencing three compartments to completion of final compartment, in some cases, a fresh compartment was added during the process once one had emptied.

WARLEY	1210 lpm
HOVEFIELDS	1600 lpm
DANBURY	1090 lpm
MAPLE	976 lpm
HOLTSPUR	1515 lpm
KENT ELMS	1791 lpm

