REPORT ON ROUTINE THOROUGH EXAMINATION OF LOCAL EXHAUST VENTILATION (LEV) PLANT

COMPLETED IN COMPLIANCE WITH COSHH 2002 6TH EDITION REGULATION 9

FOR

MERVYN LAMBERT PLANT LIMITED

FEBRUARY 2025

Test Engineer – CHRISTOPHER FREEBODY

Signed 

British Occupational Hygiene Society Certified P601
Christopher Freebody AFOH
Certificate No. 20210728-49292-15760

1 Introduction

This report gives details of a survey of the LEV systems at Mervyn Plant Ltd in Diss, to help determine the effectiveness of control of hazardous substances.

The designated responsible person for the LEV systems at this location is Ed Morley

The examination was carried out in conjunction with our generic form 'Risk Assessment – Joinery workshop' dated 1st July 2023.

Examination, testing and provision of records was carried out by our engineer, who is qualified to BOHS P601 and in accordance with the requirements of Regulation 9 of the Control of Substances Hazardous to Health regulations (COSHH) and the guidance given in the Health and Safety Executive (HSE) document HSG 258 Controlling airborne contaminants at work 'A guide to local exhaust ventilation LEV' and with ACGIH "Industrial ventilation: A manual of recommended practice".

COSHH regulations 9 (2) requires that all control measures are given a thorough examination and test at suitable intervals. For most types of LEV systems, the tests should be carried out at a maximum interval period of 14 months, however, in practice this is usually taken to mean annually. You should also be aware that many other factors could determine that the testing should be carried out on a more frequent basis. These factors include, but are not limited to, process, wear and tear, degradation and cleaned air being fed back into the working area (return air system).

This report must be retained and saved in accordance with the COSHH Regulations for a minimum of 5 years by the site employer. Your attention is drawn to the requirements of HSG 258 - section 9. It is recommended that a user manual logbook is maintained. We trust that you will find this report comprehensive, but should you have any queries, please do not hesitate to contact us on 01206 240370.

2 Method

LEV Testing is undertaken as per our Risk Assessment and Method Statement, this is sent before our visit.

A line diagram indicates the position of test points and identifies components of the LEV System. Test points were drilled into the ducting where appropriate for Velocity Pressures and Static Pressures. This will be 4-6 duct diameters from dampers, bends or any other obstruction or confluence where possible. A Manometer and Pitot Tube was used to take duct pressure readings and the ranges of values were averaged.

Pressures were not taken where the above criteria were not met, this is due to the potential for instability of readings or no safe access was available.

Face Velocities were taken on the end of hoses/hoods where appropriate using a Hot Wire Anemometer.

A Motor and Phase Rotation indicator is used to check that the fan/motor is rotating as per the manufacturer's guidelines. Please note a fan running in reverse will still extract but at a reduced rate/performance.

The LEV equipment will be inspected in accordance with guidance presented in HS (G) 258. The inspection will include where appropriate:
• Condition of capture hoods or receiving hoods.
• Condition of ductwork (flexible and rigid).
• Condition of filter/air cleaning device (where applicable) internal and external.
• Condition of extraction fan.
• Condition of discharge.
• Any other applicable observations.

A Smoke Generator was used where appropriate to assess the qualitative performance of the LEV. This was completed whilst a user was operating the system in a way that would constitute their normal operations for fume processes.

A Tyndall Dust Lamp was used where appropriate, to assess control measures in dust processes.

A visual assessment of the LEV was also undertaken to assess the general condition of the LEV and wear and tear of the LEV components.

Based on visual inspections and technical requirements, the tester will make a judgment as to whether the system is adequately controlling the substance(s) hazardous to health.

An Indicative Particle Counter is used to conduct qualitative checks on breakthrough levels from recirculating dust filters. Details of the instruments used may be found in Appendix 1.

3 Results

The full results of the survey are included within the individual system records in Appendix 3 of this report including details of faults and recommendations for use or improvement.

A summary of the results is given in Appendix 2. These are defined as:

Unsatisfactory

The performance of the equipment falls below that recommended.

Repairs or improvements to the system are required as soon as possible for it to comply with the requirements of Section 7 of the COSHH regulations (Protection or control of exposure to substances hazardous to health). Details of the work carried out should be recorded and the effectiveness should be proved by a re-test.

Partially Satisfactory

This may be because:

- only part of the system is unsatisfactory, where for example several items of equipment are connected to a single extraction system.
- the velocity may be below the recommended level, but observation indicates that adequate control is being achieved; or
- transport velocity may be low, but there are no indications of this causing a build-up in the ductwork; you are advised to regularly check that the system remains clear.

Repairs or improvements are required as soon as possible to those parts of the system that are unsatisfactory, and a clear maintenance policy is required to avoid blockages. Details of rectification should be recorded, and effectiveness proved by a re-test.

Satisfactory

The performance meets the specified criteria and observation indicates that this is adequate.

4 Comments and Recommendations

See individual reports for specific comments.

In order to comply fully with the requirements of COSHH concerning maintenance, testing and examination of LEV you should not rely only on this thorough examination and test. For example, all LEV should be visually checked at least once per week; the appropriate servicing schedule should be followed for the equipment; filter bins and waste containers should be emptied when required; filters should be changed at frequencies recommended by the manufacturer; damaged or worn items e.g., flexible ducts, fan blades, drive belts should be replaced; ductwork should be inspected for build up or blockages.

In the absence of other information, the intended performance has been assumed to match the criteria defined in the relevant publications described in Section 5. Where COSHH assessments specifically identify lesser requirements, those systems deemed 'Partially Satisfactory' might be adequate to reduce the risk.

There are substances in use that are required to be controlled to as low a level as reasonably practicable (e.g., hardwood and softwood dusts) because of their potential as asthmagens or carcinogens.

Consideration to be given to the removal of brooms from site and use industrial vacuum cleaners instead. Extraction equipment and masks should be utilised by operators at all times.

Place notices within workshops to advise of this requirement.

Appendix 1

Instrument Description	Model No	Serial Number	Last Calibration Date
Thermal Anemometer	Testo 425	85080262	12th December 2024
Manometer & Pitot Tube	Trotec TA400	181111712	3rd July 2024
Dust Lamp		T2A/9/E	N/A
Contactless Fan Rotation Indicator		H12B-A21012	N/A
Smoke Pen			N/A

All Calibration certificates are available on request.

Appendix 2

Location / LEV System Description	Ref.	Result
Workshop / Vehicle Exhaust Fume Extraction	LEV1	Satisfactory
Workshop / Vehicle Exhaust Fume Extraction	LEV2	Satisfactory
Spray Booth / Dry Back Spray Booth Extraction	LEV3	Satisfactory
Spray Booth / Dry Back Spray Booth Extraction	LEV4	Satisfactory
Spray Booth / Dry Back Spray Booth Extraction	LEV5	Satisfactory
Spray Booth / Central Vacuum for Dust Extraction	LEV6	Satisfactory
Welding Shop / Welding Fume Extraction	LEV7	Satisfactory

Appendix 3

Individual Test Records

System Details & ID		
Location:	Plant Workshop	REF: LEV1
Description:	Vehicle Exhaust Fume Extraction System	S/N Unmarked
Type of Process:	Vehicle Fume Removal	
Substance(s) Controlled:	Carbon Monoxide	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5TH February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is a vehicle exhaust fume removal system.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	23mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	YES
LEV System Manual Available?	YES
LEV Logbook Available?	YES

Fan / Air mover			
Type:	Centrifugal	Make:	Plymovent
Motor Rating: (Hz)	50	Drive type	Direct
Motor Voltage: (Volts)	400	Motor Power:	2.2kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Yes
Impeller type:	Backwards Curved	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:		Make:	
Filter Medium:		Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:			
Evidence of Contaminant Breakthrough:			
Cleaning Mechanism Operating Correctly:			
Condition of all Seals on Filter Unit:			

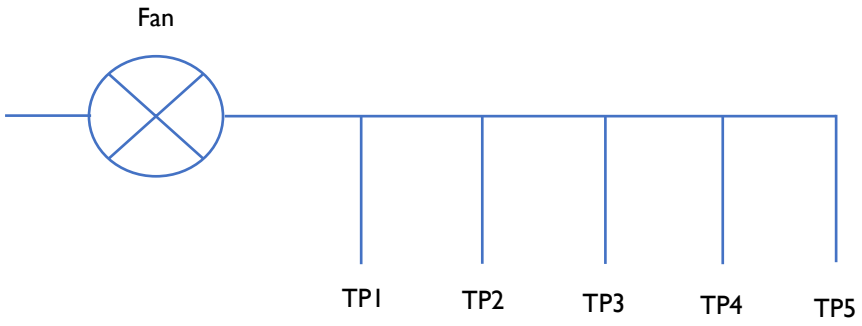
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	15.3
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	BORESCOPE		

Stack / Termination			
Stack Type:	Horizontal	Stack Height:	At the roof line
Condition of Stack:	Good		
Weatherproof Termination:	Steel Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV1**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Capture Velocity @ 1 m**	**Confirmed with Qualitative Test**
TP1	Oval Hood	0.135 x 0.180	13.28	0.253	0.150	-132	14.3		Y – Dust Lamp
TP2	Oval Hood	0.135 x 0.180	8.11	0.155	0.150	-39	8.8		Y – Dust Lamp
TP3	Oval Hood	0.100 x 0.200	7.21	0.113	0.150	-86	6.4		Y – Dust Lamp
TP4	Round Hood	0.160	8.63	0.174	0.150	-145	9.8		Y – Dust Lamp
TP5	Oval Hood	0.100 x 0.200	10.49	0.165	0.150	-69	9.3		Y – Dust Lamp

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			
TP 1 & 2	Holes in the Flex. .	4			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:	
	
LEV1	

System Details & ID		
Location:	Vehicle Workshop	REF: LEV2
Description:	Vehicle Exhaust Fume Extraction System	S/N Unmarked
Type of Process:	Vehicle Fume Removal	
Substance(s) Controlled:	Carbon Monoxide	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5TH February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is a vehicle exhaust fume removal system.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	23mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	YES
LEV System Manual Available?	YES
LEV Logbook Available?	YES

Fan / Air mover			
Type:	Centrifugal	Make:	Movex
Motor Rating: (Hz)	50	Drive type	Direct
Motor Voltage: (Volts)	400	Motor Power:	0.75kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Backwards Curved	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:		Make:	
Filter Medium:		Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:			
Evidence of Contaminant Breakthrough:			
Cleaning Mechanism Operating Correctly:			
Condition of all Seals on Filter Unit:			

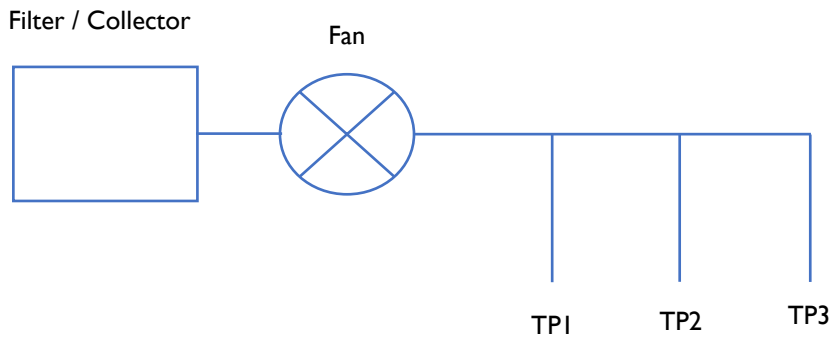
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	16.4
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	BORESCOPE		

Stack / Termination			
Stack Type:	Vertical	Stack Height:	Above the roof line
Condition of Stack:	Good		
Weatherproof Termination:	Jet Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV2**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Capture Velocity @ 1 m**	**Confirmed with Qualitative Test**
TP1	Oval Hood	0.100 x 0.200	9.39	0.148	0.150	-112	18.4		Y – Dust Lamp
TP2	Oval Hood UNTESTED Mechanical Issue	0.100 x 0.200			0.150				
TP3	Oval Hood	0.100 x 0.200	21.65	0.433	0.150	-640	24.5		Y – Dust Lamp

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			
Test Point 2	Hose reel rachet is stuck at roof level requires fixing.	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

LEV2

System Details & ID		
Location:	Spray Booth	REF: LEV3
Description:	Dry Back Spray Booth Extraction System	S/N 69980
Type of Process:	Paint Spray Fume Removal	
Substance(s) Controlled:	Isocyanate based paints (2pac)	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5th February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is one of three dry backed spray booth hoods in a dedicated booth.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	0.02mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	NO
LEV System Manual Available?	NO
LEV Logbook Available?	NO

Fan / Air mover			
Type:	Axial	Make:	
Motor Rating: (Hz)	50	Drive type	Belt
Motor Voltage: (Volts)	400	Motor Speed / Power:	1440 / 3kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Axial	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:	Insert	Make:	
Filter Medium:	Pleated Paper	Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:	Good		
Evidence of Contaminant Breakthrough:	None		
Cleaning Mechanism Operating Correctly:	On Filter Change		
Condition of all Seals on Filter Unit:	Good		

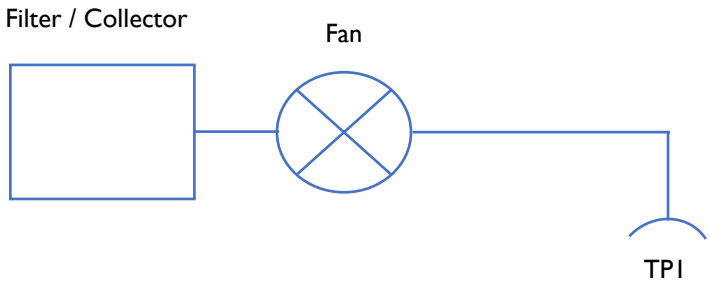
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	VISUAL		

Stack / Termination			
Stack Type:	Vertical	Stack Height:	Above apex of roof
Condition of Stack:	Good		
Weatherproof Termination:	Jet Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV3**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Capture Velocity @ 1 m**	**Confirmed with Qualitative Test**
TP1	Spray Booth	1.800 x 3.500	3.51	22.113				0.97	Y – Smoke

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

LEV3

System Details & ID			
Location:	Spray Booth		REF: LEV3
Description:	Dry Back Spray Booth Extraction System	S/N 69981	
Type of Process:	Paint Spray Fume Removal		
Substance(s) Controlled:	Isocyanate based paints (2pac)		
Overall Performance Assessment:			
SATISFACTORY			

Date of TExT:	5th February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is one of three dry backed spray booth hoods in a dedicated booth.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	0.02mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	NO
LEV System Manual Available?	NO
LEV Logbook Available?	NO

Fan / Air mover			
Type:	Axial	Make:	
Motor Rating: (Hz)	50	Drive type	Belt
Motor Voltage: (Volts)	400	Motor Speed / Power:	1440 / 3kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Axial	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:	Insert	Make:	
Filter Medium:	Pleated Paper	Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:	Good		
Evidence of Contaminant Breakthrough:	None		
Cleaning Mechanism Operating Correctly:	On Filter Change		
Condition of all Seals on Filter Unit:	Good		

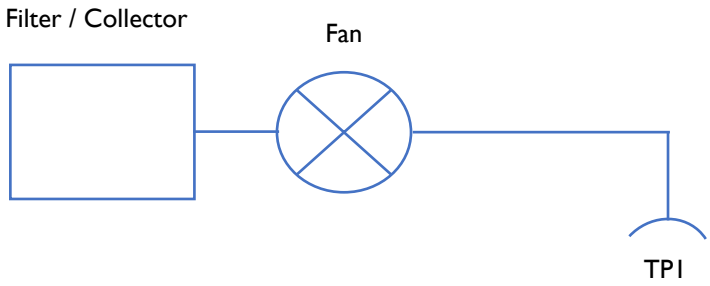
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	VISUAL		

Stack / Termination			
Stack Type:	Vertical	Stack Height:	Above apex of roof
Condition of Stack:	Good		
Weatherproof Termination:	Jet Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV4**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Capture Velocity @ 1 m**	**Confirmed with Qualitative Test**
TP1	Spray Booth	1.800 x 3.500	3.93	24.759				0.97	Y – Smoke

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

LEV4

System Details & ID		
Location:	Spray Booth	REF: LEV5
Description:	Dry Back Spray Booth Extraction System	S/N 69979
Type of Process:	Paint Spray Fume Removal	
Substance(s) Controlled:	Isocyanate based paints (2pac)	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5th February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is one of three dry backed spray booth hoods in a dedicated booth.

9min combined smoke clearance test.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	0.02mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	NO
LEV System Manual Available?	NO
LEV Logbook Available?	NO

Fan / Air mover			
Type:	Axial	Make:	
Motor Rating: (Hz)	50	Drive type	Belt
Motor Voltage: (Volts)	400	Motor Speed / Power:	1440 / 3kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Axial	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:	Insert	Make:	
Filter Medium:	Pleated Paper	Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:	Good		
Evidence of Contaminant Breakthrough:	None		
Cleaning Mechanism Operating Correctly:	On Filter Change		
Condition of all Seals on Filter Unit:	Good		

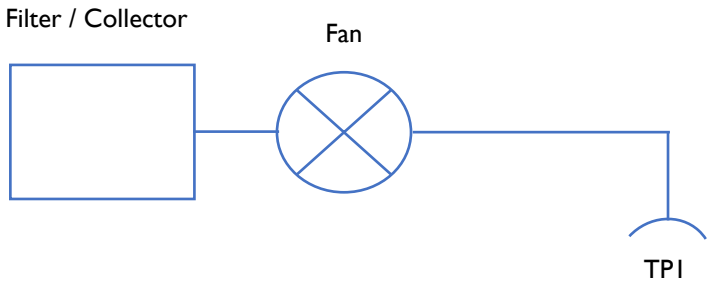
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	VISUAL		

Stack / Termination			
Stack Type:	Vertical	Stack Height:	Above apex of roof
Condition of Stack:	Good		
Weatherproof Termination:	Jet Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV5**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Capture Velocity @ 1 m**	**Confirmed with Qualitative Test**
TP1	Spray Booth	1.800 x 3.500	2.71	17.073				1.01	Y – Smoke

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

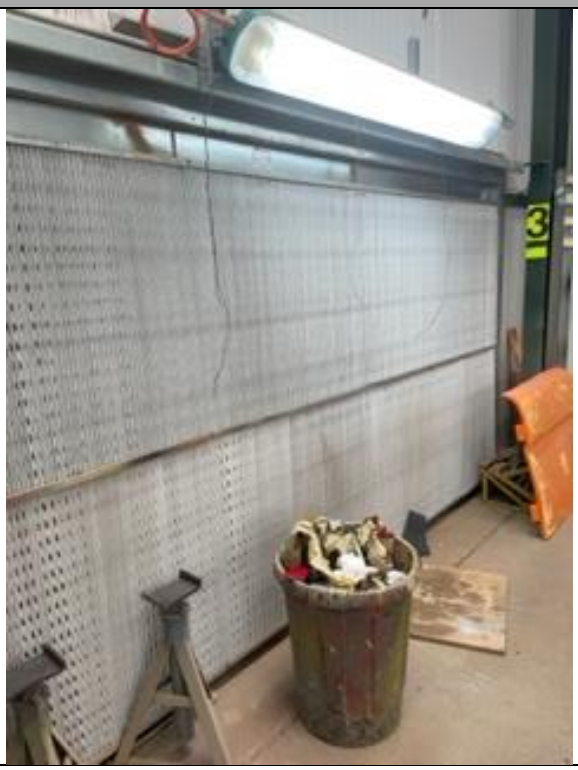
Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

LEV5



System Details & ID		
Location:	Spray Booth	REF: LEV6
Description:	Central Vacuum Extraction	S/N 1203
Type of Process:	Hand Sanding Dust Removal	
Substance(s) Controlled:	Dry Paint Dust	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5th February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description

This is a dust extraction system for the removal of dusts from the LVHV Ports on powered tools.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the dust generated is 5 m/s. Duct (transport) velocity should be approx. 15 - 20 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	4mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	YES
LEV System Manual Available?	YES
LEV Logbook Available?	YES

Fan / Air mover			
Type:	Centrifugal	Make:	Minden
Motor Rating: (Hz)	50	Drive type	Direct
Motor Voltage: (Volts)	415	Motor Power:	4kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Backwards Curved	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:	Insert	Make:	
Filter Medium:	Pleated Paper	Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:	Good		
Evidence of Contaminant Breakthrough:	None		
Cleaning Mechanism Operating Correctly:	Yes – Air Pulse		
Condition of all Seals on Filter Unit:	Good		

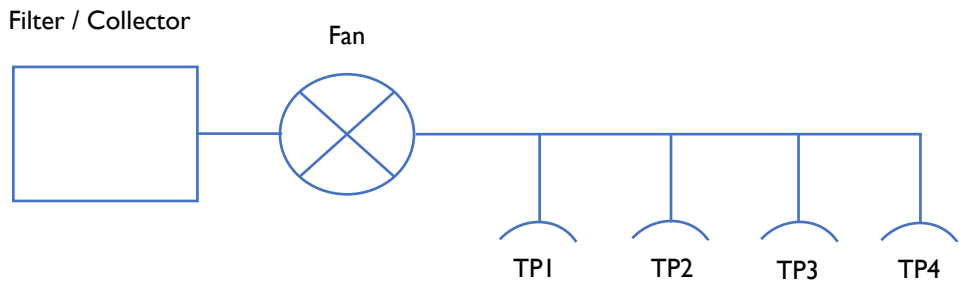
Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	16.4
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	VISUAL		

Stack / Termination			
Stack Type:	Internal	Stack Height:	
Condition of Stack:	Good		
Weatherproof Termination:	Recirculated	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods

Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results

REF: LEV6

Measurement Point No.	Description	Hood			Duct			Capture Distance	
		Hood Dimensions (m)	Face Velocity (m/s)	Volume Flow (m^3/s)	Duct Dimensions (m)	Static Pressure (Pa)	Duct Velocity (m/s)	Capture Velocity @ 1 m	Confirmed with Qualitative Test
TP1	LV HV Port	0.040	30+	0.038+	0.050		84.5+		Y – Dust Lamp
TP2	LV HV Port	0.040	30+	0.038+	0.050		84.5+		Y – Dust Lamp
TP3	LV HV Port	0.040	30+	0.038+	0.050		84.5+		Y – Dust Lamp
TP4	LV HV Port	0.040	30+	0.038+	0.050		84.5+		Y – Dust Lamp

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

	
LEV7	

System Details & ID		
Location:	Welding Workshop	REF: LEV7
Description:	Welding Fume Extraction System	S/N Unmarked
Type of Process:	Welding Fume Removal	
Substance(s) Controlled:	Mild Steel Welding Fumes	
Overall Performance Assessment:		
SATISFACTORY		

Date of TExT:	5th February 2025	Date of Previous TExT:	21st February 2024
Next TExT Due	February 2026	Interval between TExT	12 Months

System Description
This is a multi-point welding fume extractor with an external filter prior to the stack.

Extraction Points	
Conditions at Time of Test	Operational, LEV tested as found.
Intended Performance of Plant	The recommended capture velocity to control the fume generated is 0.5 m/s. Duct (transport) velocity should be approx. 10 m/s.
Actual Performance of Plant	The capture and face velocities achieved the recommended value.

Air Quality	
Workplace Exposure Limits (if Available)	ALARP (As Low As Reasonably Practicable)
Substance Benchmark (WEL or Control Banding)	0.5mg/m3 8hr TWA
Has an Air Quality Survey been completed since the last TExT?	No
If Yes, Reference Number and report summary	N/A

Available Documentation	
Commissioning Report Available?	NO
LEV System Manual Available?	NO
LEV Logbook Available?	NO

Fan / Air mover			
Type:	Centrifugal	Make:	Movex
Motor Rating: (Hz)	50	Drive type	Direct
Motor Voltage: (Volts)	400	Motor Speed / Power:	2910rpm / 4kw
Motor Direction:	Anti – clockwise	Direction Confirmed:	Y – Non-Contact indicator
Impeller type:	Backwards Curved	General Condition of Fan:	Good
Make Up Air Type:	General Building Ventilation	Adequate Make Up Air	Yes

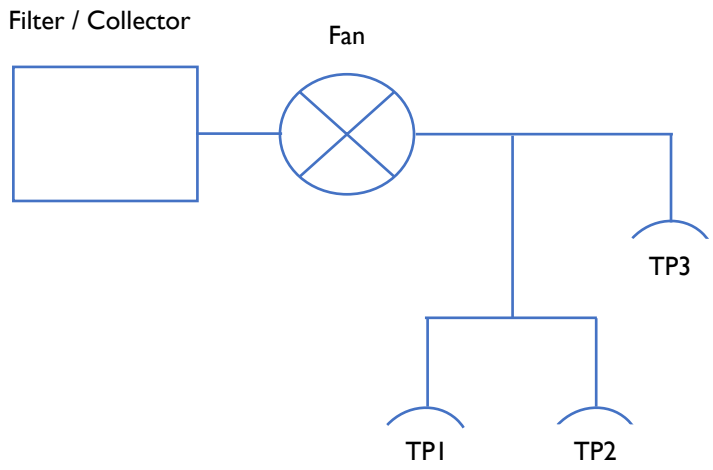
Filter / Collector			
Air exhausted to workplace:	No – to atmosphere		
Primary Filter Type:	Cartridge	Make:	Movex
Filter Medium:	Pleated Non-woven Fibre	Model:	
Secondary Filter Type:		Make:	
Filter Medium:		Model:	
Condition of Filters:	Good		
Evidence of Contaminant Breakthrough:	None		
Cleaning Mechanism Operating Correctly:	N/A		
Condition of all Seals on Filter Unit:	Good		

Duct Specification			
Duct Type:	Spiralised Galvanized Steel	Duct Temperature	15.1
External Condition of Duct	Good	Barometric Pressure:	1013mb
Inspection Hatches Fitted	NO	Damper Settings:	Control Dampers closed at Equipment
Internal Examination	VISUAL		

Stack / Termination			
Stack Type:	Vertical	Stack Height:	Above the roof line
Condition of Stack:	Good		
Weatherproof Termination:	Jet Cowl	Damper Settings:	Control Dampers closed at Equipment
Stack Height Sufficient to Ensure Full Dispersion:		Yes	

Hoods			
Hoods Suitable for Substance / Benchmark:	YES	Hood Flow Indicators Fitted:	NO
Hood Pass/Fail Labels Fitted:	YES	Captor Hood "Effective Distance Labels" Fitted	NA
Were Operators Working at time of TExT	YES	Are Hood being Used in the Correct and Intended Manor	YES
Comments on operator usage	Hoods being used in the correct manor as per site training, this is in line with HSE guidelines. With correct PPE for the process.		

LEV Diagram



Quantitative Results									**REF: LEV7**
Measurement Point No.	**Description**	**Hood**			**Duct**			**Capture Distance**	
		Hood Dimensions (m)	**Face Velocity (m/s)**	**Volume Flow (m^3/s)**	**Duct Dimensions (m)**	**Static Pressure (Pa)**	**Duct Velocity (m/s)**	**Calculated Capture Distance (mm)**	**Confirmed with Qualitative Test**
TP1	Oval Hood	0.330 x 0.270	12.10	0.847	0.160	-441	42.1	421	Y – Smoke
TP2	Oval Hood	0.330 x 0.270	17.48	1.223	0.160	-398	60.8	510	Y – Smoke
TP3	Oval Hood	0.330 x 0.270	12.78	0.894	0.160	-286	44.5	433	Y – Smoke

Statement Of System Performance

The performance of the system is within the system design and within the velocities that are set out in HSG258. For this reason, the system has gained a satisfactory result as all risks are being captured.

Defects & Recommendations

LEV Examiner			Employer's Use		
Item in LEV System	Action Required	Priority*	Person to Action	Target Date	Date Completed
LEV	Report to be filed in Logbook and held for 5 years to comply with COSHH 2002.	4			
LEV	Place Signage on equipment to advise user of the need for PPE to be worn at all times	1			

Priority – 1=high, 2= normal, 3=Routine, 4= Awareness. All Critical Defects are shaded in **RED*

LEV Images from site:

LEV7