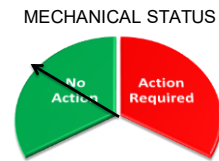
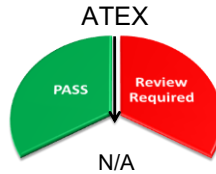




COMMISSIONING REPORT OF LOCAL EXHAUST VENTILATION SYSTEM (LEV)



1. General Information

Site Contact Name	Chris Cutts
DCE Contract Ref	C24-14096
Customer O/D N° / Ref	PO 642655

Report Date	18/06/2026
Test Date	11/06/2026
1st LEV inspection Due Date	June 2027

LEV / Ref N°	LEV 007
Location of LEV	Bay 3
Process Source Description	Shot Blast Booth
Hazard to be Controlled	Cast Iron

2. LEV Machine Data

Filter Unit Serial Number	2154
Filter Type / Make	DCE Typhoon 32
Filter Area m ²	960
Filter Media Type	Nanoweb Cartridge
Cleaning System	Reverse Jet
ATEX Zone	N/A

Pressure Filter Clean Side mm w.g.	143.8
Pressure Filter Dirty Side mm w.g.	133.2
Differential mm w.g.	10.6
Differential "swg	0.42

Customer Name	Sheffield Forgemasters Engineering
Address	Brightside Lane
	Sheffield
	S9 2RX
	-
	-

Contact Number	07917 828 251
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Commissioned during Normal Operation (Y/N)	No
Examination Frequency	Annual

Explosion panel certificate number	N/A
Back Pressure flap certificate number	N/A

Fan Type	Centrifugal
Fan Location	Floor Mounted
Fan Serial Number	3324 / 2303 / 1
Fan Designation	Direct Drive
Fan Direction	Clockwise
Fan RPM	1470
Fan Motor Size kW	37
Rated Capacity	45,000 m ³ /h @ 200mm
Acoustic Silencer	Yes
Discharge Stack	Yes
Pressure Fan Inlet mm w.g.	188.4
Pressure Fan Outlet mm w.g.	32.7

Visual Assessment of the level of dust control		
Is the contaminate being controlled?	Yes - Smoke Tested	



COMMISSIONING REPORT OF LOCAL EXHAUST VENTILATION SYSTEM (LEV)

3. Filter Fixed Pressure Gauge

Fixed Gauge Fitted	Controller
Clean Air Outlet Reading	143.80
Dirty Air Inlet Reading	133.20
Pressure Differential	10.60

Gauge Reading	10 mm
Gauge Reading Satisfactory	Yes

4. Flow indicators

Flow indicator 1

Flow indicators fitted	No
Measured static pressure	N/A
Indicator reading	N/A

Flow indicator 2

Flow indicators fitted	No
Measured static pressure	N/A
Indicator reading	N/A

Flow indicator 3

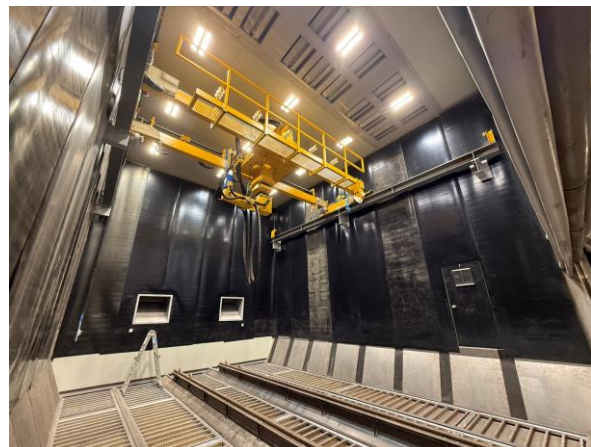
Flow indicators fitted	No
Measured static pressure	N/A
Indicator reading	N/A

Flow indicator 4

Flow indicators fitted	No
Measured static pressure	N/A
Indicator reading	N/A

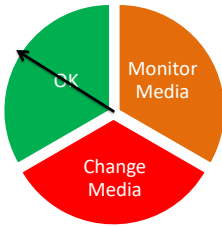
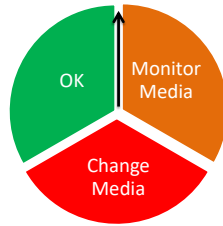
Continue on separate sheet if required

5. System Photographs





6. Filter Unit Health Check

Description		DUST CONTROL ENVIRONMENTAL			Comments		
Primary Filter Media					Secondary Filter Media		
N/A					No Secondary Filter		
		PASS	FAIL	N/A			
Media	Cartridges	PASS					
	Bags			N/A			
	Cages / Inserts			N/A			
Filter Cleaning	Mechanical Shake linkage			N/A			
	Bungees / Bag Supports			N/A			
	Jet Tubes	PASS					
	Diaphragm Valves	PASS					
	Solenoid Valves	PASS					
	Reverse Air Fans			N/A			
	Cleaning Controls / Pulse Controller	PASS					
	Magnehelic Gauge			N/A			
Filter	Filter Housing	PASS					
	Hoppers	PASS					
	Support Structure	PASS					
	Access Ladder and Platform			N/A			
Discharge	Dust Collection Bin/Bag				Bulk bags to be fitted		
	Bin Balance Connection			N/A			
	Discharge Valve	PASS					
Fan Set	Fan	PASS					
	Fan Motor	PASS					
	Drive Belts			N/A			
	Flexible Connection			N/A			
	Silencer	PASS					
Ducting	Hoods	PASS					
	Booths	PASS					
	Ducting	PASS					
Explosion Relief	Flameless Vent			N/A	ATEX Certified	N/A	
	Detection Switch			N/A			
	Explosion Vent Duct			N/A			
	Non-return pressure flap			N/A	ATEX Certified	N/A	
Other	Pre-separation device			N/A			

7. Return of Exhaust Air to Atmosphere

Filter Efficiency		Measurement method	
Static Pressure on Ductwork Return		-	-
Estimate of concentrate Carryover to Atmosphere		None witnessed at time of test	Visual
Recommendations and Priority		-	-



8. LEV Test Point results Table

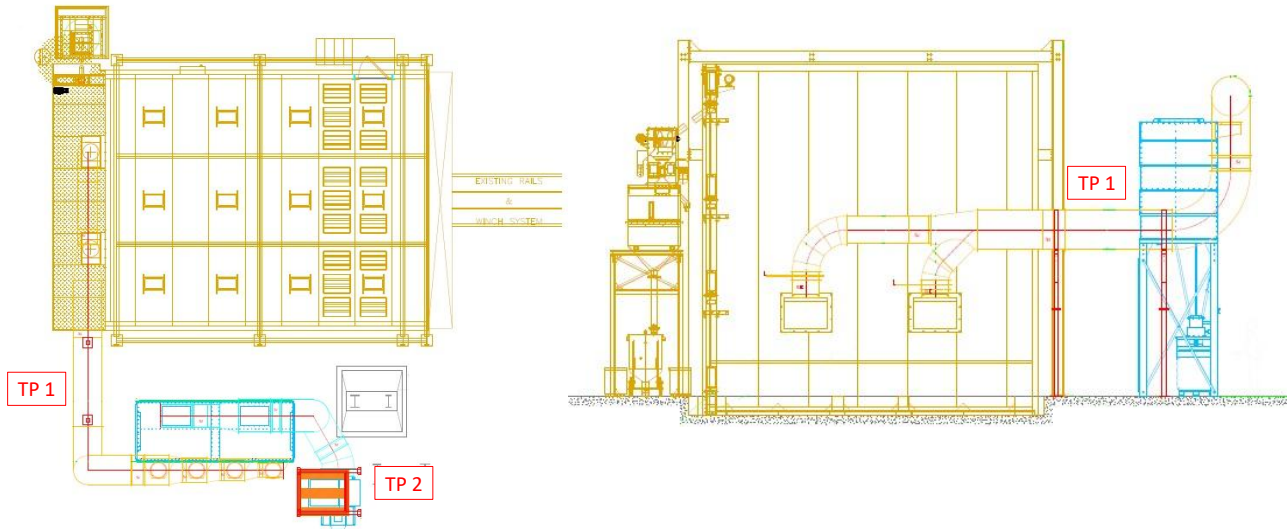
Test Point	Machine Detail	Duct Dia mm	Static Pressure mm w.g.	Average Velocity m/s	Design Volume m ³ /h	Measured Volume m ³ /h	PASS / FAIL
1	Main Duct	900	110.1	19.78	45000	45306	PASS
2	Fan Inlet	1000	193.7	16.04	45000	45358	PASS
3							
4							
5							
6							
7							
8							
9							
10							
Face Velocities / Booths / Enclosure							
Test Point	Machine Detail	Open Area m ²		Average Velocity m/s		Measured Volume m ³ /h	PASS / FAIL
1	FV1	0.8415		7.57		22933	PASS
2	FV2	0.8415		7.62		23084	PASS
3							
4							
5							
6							

Please note that all readings can vary +/- 10% accounting for environmental conditions

9. Documents

Design data seen	Yes
Previous LEV report seen	N/A
LEV log seen	No
Operators manual seen	No
Material safety data sheet	No

10. LEV System Layout Schematic



11. Summary - Recommended for Repairs/ Remedial Work

	Description	Priority
1 Defect	No bulk bags fitted	1
1 Action	Ensure bulk bags are fitted	
2 Defect		
2 Action		
3 Defect		
3 Action		
4 Defect		
4 Action		
5 Defect		
5 Action		
6 Defect		
6 Action		
High 1 - Medium 2 - Low 3		



12. Remedial Work Photographs



Ensure bulk bags are fitted

13. Additional Comments



Smoke Tests



14. Records & test Equipment / Parameters

Airflow Meter - duct velocity / pressures	Fluke 922
Re-Calibration date - certificate number & serial number	14/01/2026 - 20260114-24 - 51770374
kimo Anemometer - face velocity	Kimo LV110
Re-Calibration date - certificate number & serial number	14/01/2026 - 20260114-16 - N/A

Test Company Name and Address	Dust Control Environmental Ltd
	Unit 1
	Flanshaw Industrial Estate
	Flanshaw Way
	Wakefield
	WF2 9LP
Name of Test Engineer	Andy Hepworth
Signature of Test Engineer	<i>A J Hepworth</i>

Recommended Capture and Transport Velocities as recommended in HGS 258

Guidance Only

Hood Capture Velocities	Velocity m/s
Evaporation / Mists	0.25 - 0.50
Weld Solder	0.50 - 1.00
Crushing / Spraying	1.00 - 2.50
Cutting / Abrasion / Blasting / Grinding	2.50 - 10

Ducting Transport Velocities	Velocity m/s
Gases / Non Condensing vapours	5
Condensing Vapours / Fume / Smoke	10
Plastic Dust / Sawdust / Fine dusts / Mists	15
Cement Dust / Brick Dust / Wood Shavings / Grinding Dusts	20
Heavy / Damp Dust	25

Useful Conversions

m ³ /h to cfm	÷	1.7
m/sec to ft/min	X	200