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Report Id 3809265\_1023\_LEV014\_1-3ZAD73

BOC Gases  
Ipswich Works  
Hadleigh Rd  
IPSWICH, Suffolk  
IP2 0EX



BUREAU  
VERITAS

LEV - Local Exhaust Ventilation

## Report of Examination of Local Exhaust Ventilation & Collection Plant

BV Identifier: MIG-1107588

Client Reference:	LEV014
Description:	Local Exhaust Ventilation Blasting Enclosure Cylinder Internals <i>← Details</i>
Manufacturer:	LS Industries
Serial Mark / Number:	LEV014
Date of Manufacture:	2001
Last Examination Date:	28/04/2010
This Examination Date:	23/09/2010
Next Examination Date:	23/03/2011
Final Assessment Of Level Of Control	SATISFACTORY

I examined this plant in accordance with the requirements of the regulations and the results of the examination are as shown

Date of Issue of Report: 27/09/2010

John ADAMS ( )

Qualification: Engineer Surveyor

Signature: \_\_\_\_\_

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LEV - Local Exhaust Ventilation

Regulations applicable	The Control of Substances Hazardous to Health Regulations
Inspection Frequency	6 Monthly
Examination Made	Thorough Examination
Commissioning report, Initial Thorough Report	Yes - BV Jan 2009
Do all the details still compare with the Commissioning, Initial Thorough report	Yes
Number of Extraction Points	1
Maximum number to be used at any one time	1

<b>AIR MOVER/FAN DETAILS</b>	
Make	LS Industries
Model / Type	Axial
Motor Rating	5.0 kW est
Motor current amps	Not known
Motor / Fan speed	Not known
Fan Size (Diameter)	Not measured
Direction of fan rotation	Clockwise
Volume flow rate (m3/s)	1.23 cu.m/s
<b>PRIMARY AIR CLEANER</b>	
Make	LS Industries
Model	Not known
Serial Number	Not known
Filter Medium	Fabric bags
Auto Monitoring Devices	
<b>SECONDARY CLEANER</b>	
Make	
Model	
Serial Number	
Filter Medium	
Auto Monitoring Devices	

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Process in connection with which the plant is used and the hazardous substances(s)

Shot blasting of gas cylinder internals. Metal and shot dust.

Visual appraisal of LEV system	SATISFACTORY
Qualitative assessment of effectiveness	SATISFACTORY
Methods by which the assessment was made	Hot wire anemometer psl 72-108, Digital manometerpsl 72-104, smoke & visual.
Local conditions at the time of the test	Run for the purpose of the test
Particulars of exhaust ventilation	Exhaust to atmosphere
Estimate of concentration of contaminant in returned air	Not applicable
Auto monitoring device	No auto monitoring devices fitted
Filter(s) condition, efficiency	SATISFACTORY - New bags fitted 27/4/2010
Defects affecting satisfactory operating performance that require urgent rectification	None.
Defects affecting satisfactory operating performance that require rectification by the date specified	None.
Other defects	None.
Other Observations	None.

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Air Monitoring			
Substance	Relevant exposure standard	Measured exposure	Reference to Air Monitoring report
<b>Record of Performance Data</b>	<b>Commissioning / Initial Thorough Results</b>	<b>Previous Thorough Examination Results</b>	<b>This Thorough Examination Results</b>
Static Pressure at Fan	-810 Pa	-820 Pa	-691 Pa
Primary filter unit static pressures			
Out.	-810 Pa	-820 Pa	-691 Pa
In.	-680 Pa	-580 Pa	-603 Pa
Differential.	130 Pa	240 Pa	88 Pa
Secondary Filter Static pressures			
Out.			
In.			
Differential.			

Routine test data					
Test Point	Dimension (mm)	Commissioning / Initial Thorough Results	Previous Thorough Examination Results	This Thorough Examination Results	Benchmark
Hood face velocity Fv1		1.26 m/s			
Duct velocity Dp1		9.8 m/s	9.8 m/s	9.8 m/s	
Static pressure filter out Sp1		-680Pa	-580Pa	-580Pa	
Static pressure filter out Sp2		-810Pa	-820Pa	-820Pa	
Pressure differential			240Pa	240Pa	

Local Exhaust Ventilation Schematic Diagram: BOC Gases-MIG-1107588-Initial Drawing

## Arrangement/ Layout Drawing

Client BOC Gases Ipswich Works Hadleigh Rd IPSWICH, Suffolk IP2 0EX	Contract No. BOC401396	Report No. LEV 014	Sheet No. Attachment 1
	Order On BV Not applicable.	Specification. Not applicable.	
	Drawing numbers Not applicable.		

