Pig Feeds
Lower Mill Level

VULCAN INSPECTION SERVICES

In any correspondence relating to this report please quote:

District	**E045**
Policy	**NF05X3276645**
Item No.	**N1**

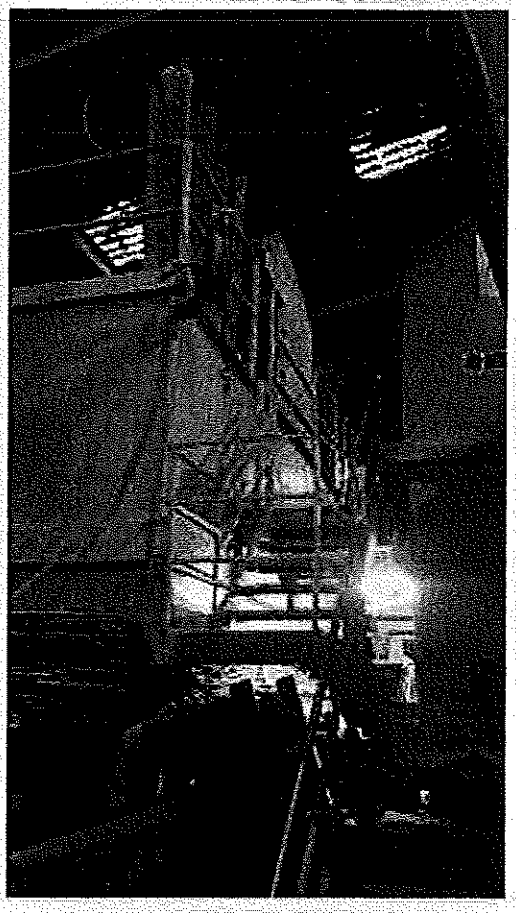
CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH) REGULATIONS 2002
REPORT OF THOROUGH EXAMINATION AND TEST BY A COMPETENT PERSON OF LOCAL EXHAUST VENTILATION EQUIPMENT
TO MEET THE REQUIREMENTS OF REGULATION 9.(2)

1 *Name of Employer responsible for the plant* — **W RIGBY & SON LTD**

2 *Address of Employer* — **CHINLEY HOUSE**
BUXWORTH
HIGH PEAK
SK23 7NP

For the attention of — **Simon Rigby**

3 *Location of local exhaust ventilation (LEV) plant.* — **Front Warehouse**



4	*Process and hazardous substances concerned.*	**The extraction of dust from the grinding of wheat, barley, lime and M.C.P from the concealed tanks and bags 1 and 2 Hazard Band 'E'**
5.1	*Identification of LEV plant*	**LEV1**
5.2	*Manufacturer*	-
5.3	*Moveability of plant.*	**Fixed plant**
5.4	*Description of plant.*	**WHEAT AND BARLEY EXTRACTION SILOS/TANK STORAGE**
6.1	*Condition of LEV plant at time of test: normal production or sprecial conditions.*	**Normal production**
6.2	*Is the performance of the system Satisfactory or Unsatisfactory?*	**Satisfactory**
6.3	*Defects requiring immediate attention to avoid danger to users/employees*	**None**
6.4	*Defects requiring attention 'as soon as reasonably practicable' to avoid danger to users/employees*	**None**
6.5	*Were the following documents available:*	
	a) The Intended Operating Performance (IOP)/commissioning report	**No**
	b) System log book	**Yes**
	c) Material Safety Data Sheet(s)	**Yes**
	d) User Manual	**No**
	e) Previous Inspection reports	**Yes**
6.6	*Have any changes been made since the last inspection to:*	
	a) The extraction system	**No**
	b) The work processes	**No**
	c) The substances (or their form) being used	**No**
6.7	*Does the process involve any of the following:*	
	a) Blasting carried out in, or incidental to, the cleaning of metal castings in connection with their manufacture	**No**
	b) Jute cloth manufacture	**No**
	c) Processes, other than wet processes, in which metals (other than gold, platinum or iridium) are ground, abraded or polished using mechanical power, in any room for more than 12 hours per week	**No**
	d) Processes giving off dust or fume in which non-ferrous metal castings are produced	**No**
7	*Is the LEV plant continuing to achieve its Commissioning/Intended Operating Performance for*	**This could not be ascertained, as the Intended Operating Performance for controlling the hazardous substance(s) for the purposes of Regulation 7 was not available at the time of this inspection. Whilst satisfactory measurements of the engineering parameters, allied to visual**

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	Operating Performance for controlling the hazardous substance(s) for the purposes of Regulation (7)?	**techniques, indicated that the hazardous substance was being controlled, it will be necessary to supplement this report with results of air sampling. Provided that the results of the air sampling undertaken in this area indicate that the relevant Workplace Exposure Levels are not being exceeded, then it is suggested that the data contained in this report be accepted as the Intended Operating Performance for the system.**
8	*Define methods used to make judgement at (7) above*	**Pressure measurement, Visual observation**
9	*Does this system return exhaust air to the workplace*	**No, exhaust air not returned to workplace**
10	*Date of last thorough examination and test.*	**24/01/2018**
11	*Observations*	**The surrounding area to the LEV plant needs to be kept clean as to stop the contaminate dispersing back into the atmosphere of the ware house.** **It was noted that ghis was an enclosed process so no face velocity readings could be taken.** **It was noted there is regular checks carried out on the system and recorded in the on-site log book. The shut off sensors should be included within these checks to ensure their operation. They were fully working at the time of inspection.** **The MSDS were available at the time of this inspection but did not state the H phrases so that it can be allocated into a hazard band. COSHH Regulation 6 requires this data for hazardous substances used with the process. Therefore, we have allocated the highest hazard band for the system, until suitable MSDS information is provided.** **Stone trap trays are required to maintain good house keeping when this trap is accessed.** **Current HSE guidance requires the provision of a User Manual for all LEV systems, and also indicates the need for an airflow indicator at every hood to provide the operator with some simple indication that the hood is working correctly.** **The weight of the bags are monitored by the office so that the bags do not get near the top extraction. The bags are kept 3/4 full so that the extraction inside can be effective and used as a pressure release.** **Filters should be cleaned on a regular basis to reduce the amount of blockages which may affect the systems extraction.** **The filter socks were not easily accessed due to the design of the system but accessed from the side panel.** **For guidance on suitable exhaust discharge arrangements please refer to Health & Safety publication HSG 258.** **The system was tested with the damper fully open on the ducting to the vented bags.**
12	*Details of instruments used in this inspection*	**Inspection and test results obtained using the following calibrated instruments:-** **1. Manometer Pressure meter TA4650852007** **2. Anemometer Hot vane Probe P09400006** **3. Anemometer Rotating vane Probe P09420021**

13 *Limitations to the Thorough Examination and Test which constitute a Non-Thorough Examination for the following element(s):*

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Hood/Face/Component/ System ID	Location	Reason for Limitation	Expected Client Action
N/A	N/A	N/A	N/A

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PERFORMANCE DATA MEASURED DURING THIS EXAMINATION AND TEST

ENCLOSURES AND HOODS (Maximum number to be in use at any one time 4)

Hood No.	Location or position	Static Pressure (kPa)		Face Velocity (m/s)	
		Measured	IOP	Measured	IOP
Tank A	Animal Feed Warehouse	-0.56	-	Enclosed	-
Tank B	Animal Feed Warehouse	-0.56	-	Enclosed	-
Bags 1 (Pressure Release)	Animal Feed Warehouse	-0.14	-	Enclosed	-
Bags 2 (Pressure Release)	Animal Feed Warehouse	-0.08	-	Enclosed	-

DUCTING

Duct No.	Dimensions (mm)	C.S.A (m^2)	Transport Velocity (m/s)		Volume Flow (m^3/s)	
			Measured	IOP	Measured	IOP
Main TV	0.34 x 0.18	0.0612	8.14	-	0.50	-
Main TV Bag Duct	150	0.017	12.63	-	0.21	-
TV2 Bag 1 (Pressure Release)	150	0.017	5.49	-	0.09	-
TV3 Bags 2 (Pressure Release)	150	0.017	6.76	-	0.11	-

FILTER/COLLECTOR

Specification	Volume Flow (m3/s)	Static pressure at inlet (kPa)		Static pressure at outlet (kPa)		Static pressure across filter (kPa)	
		Measured	IOP	Measured	IOP	Measured	IOP
Fabric Tube Filters	0.50	-0.56	-	-1.61	-	1.80	-

FAN OR AIR MOVER (4kw)

Specification	Direction of Rotation	Volume Flow (m3/s)	Static pressure at inlet (kPa)
Centrifugal Direct Driven	Clockwise	0.50	-1.61

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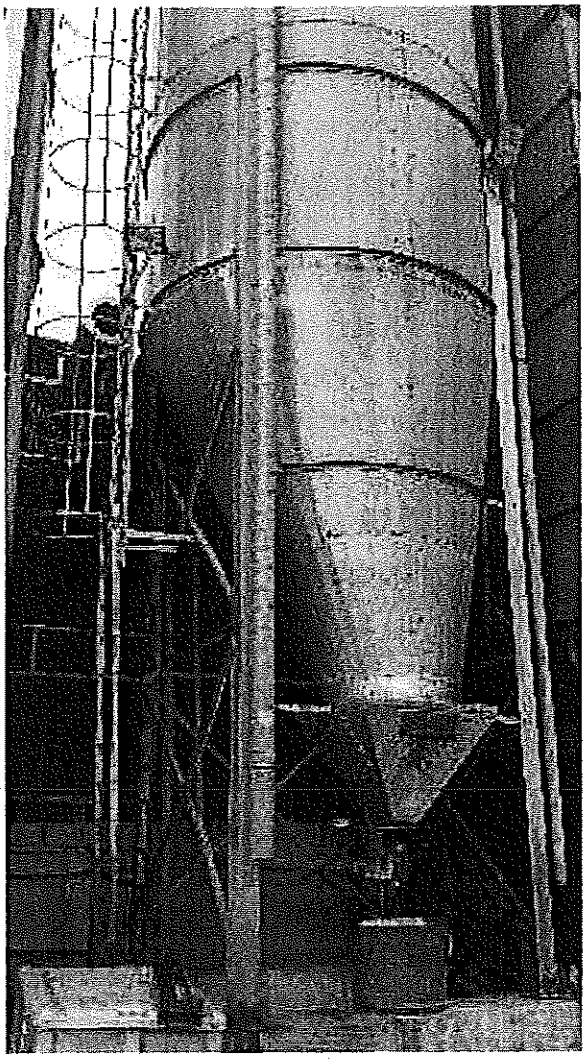

Outside Silo

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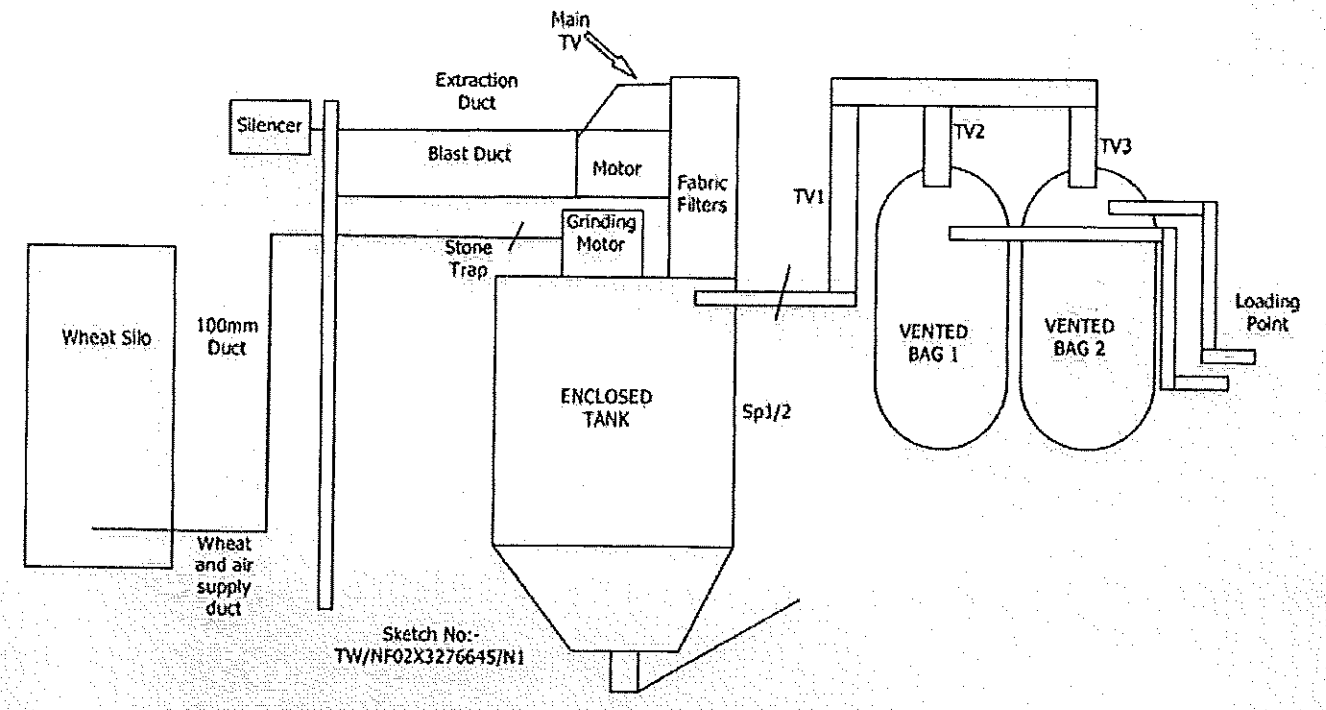

This report is a suitable record in respect of a thorough examination and test of the above noted LEV plant, as required for the purposes of Regulation 9.2 of COSHH Regulations

Unless otherwise stated, this inspection has been completed in accordance with Procedure 05-20-P01.

Date of Examination	**20/02/2019 to 20/02/2019**
Report Date	**21/02/2019**
Next Thorough Inspection Due Date	**20/02/2020**

Signature: Mr T Walsh

For Occupational Hygiene Services
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