



**JUNE 2024**

**REVISED WORKING PLAN STATEMENT FOR FLEXDART LIMITED,  
FAIRFORAL WORKS, MARSH LANE, WATER ORTON, BIRMINGHAM**

Flexdart Limited is a Metal Recycling facility which occupies the premises situated on Marsh Lane adjacent to the M42 motorway.

The company comprises of two main trading bodies being Beaver Metals and Metallic Extractors.

**Boundary Treatment**

The site is bounded by a combination of steel palisade concrete, and wood panel fencing to the height of 2 metres topped by electric fencing for added security, distributed as indicated on the plan.

**Security**

The site is protected by an electric fence and cameras on 24Hr surveillance activated by movement sensors. The office has an independent fire and movement system. The site is locked outside working hours.

**Drainage**

The drainage scheme centres on the lagoon to the rear of the site, an old gravel pit naturally clay lined and supplies water to the milling house. This has now been converted into a concrete tank approximately 2m deep, 10m wide and 60m long, into which all yard drains empty.

- Area 1 is used for the storage of Fines. Water from here is channelled back in the settlement pit.
- Area 7 Drains to the top right-hand corner of the site. The area is externally banded by a 9" high concrete bund strengthened with steel bars and seals using epoxy resin. Any build up of water from this area is pumped back into the lagoon via a yard pump. Any run-off will be clean rainwater which will drain by general soak-away. Foul water pumped to main sewers via rising main from pumping station in area 1.
- Areas 8 & 9 drain to interceptor tank at the rear of the lagoon.



### **Mercury Storage**

The facility has permission to store up to 500kgs of mercury scrap. This would be stored on a steel tray in specialist steel bottles each holding 25kgs of mercury.

### **Radioactive Substances**

Any unauthorised radioactive material found in loads of scrap are returned to sender or dealt with in accordance with our radiation protection advisor Dr Sykes. If it became necessary to store it on site it would be secured in Building B until it could be disposed with.

### **Weighbridge**

The weighbridge is a raised 60ft platform located at the entrance of the site. It weighs up to 50 Tonnes in 10kg increments. The head of the weighbridge is located in the office and can provide a printed weighbridge ticket for any vehicle. It is maintained as necessary by Shropshire Scales. On one end of the weighbridge has an Exploranium Radiation Detection System with a read out and alarm in the office.

### **Buildings**

Open front building for depollution of cars

The site contains a variety of buildings:

4 X STORAGE WAREHOUSES – Steel-framed, steel-sheet, steel-clad & Brick built.

2 X PROCESSING SHEDS – Brick built.

Building B & E are fitted with steel, roller-shutter doors while the remainder have steel, sliding doors.

### **Parking**

There is a large designated car-parking area to the front of the site as indicated on the plan. An overflow car park adjacent to the premises is used if the car park is full or in use for storing oversized material. The company owns 7 lorries which are used to transport material to and from the facility. These vehicles may be parked on the site overnight, both in the car-parking area and on the roadways around the site.

### **Lighting**

Each building is fitted with skylights. Halogen lighting is available both within the buildings and for the yard for use during the hours of darkness.



### **Stie Maintenance**

All buildings, fences, surfacing act. Are checked on a daily basis to ensure their integrity. Any urgent repairs are carried out within 24 hours. The inspector and all the drainage gullies and catch-pits will be checked at least once a month and cleared of at least once every 3 months or as necessary. All features on will be maintained as operational.

### **Liquid Storage**

Three diesel tanks (2 x 500 gallons, 1 x 2000 gallons) are located as indicated on the plan. Each tank is banded individually.

Batteries are stored upright wrapped on pallets and stored in building F unless awaiting collection when they are moved onto the yard area.

Engine and hydraulic oil and transmission fuel will be stored in 45-gallon drums which will be kept on a purpose built banded pallet.

Gas cylinders are stored in the area indicated on the plan and secured in an upright position.

The bund compounds are constructed from 12" x 5" breezeblocks and capable of holding at least 110% of the capacity of the largest tank within them. The diesel tank is self-banded, i.e. double skinned.

### **Material to be handled**

#### **Type:**

The material handled at this facility includes all types of scrap metal. Transformers are only accepted when drained of any oil. Capacitors are not accepted at the facility.

#### **Origin:**

Material is received from foundries, factories/works, other material merchants, some imported and a small amount of passing door trade.

#### **Quantities:**

Normal working capacities of each of the designated storage area is indicated in appendix 2.



## **OPERATIONAL PROCEDURES**

### **Hours**

The operating hours are as follows:

Monday to Friday 06.30 to 6.30

Saturday 06.30 to 12.00

Vehicles may leave the premises to make collections or deliveries outside these hours. Sundays and bank or public holidays are not worked as indicated by the planning permission. Despite this, personnel may be on the premises for repair and maintenance purposes and shipment times may require that the premises be open outside the hours indicated and even on bank holidays subject to prior notification to the E.A.

### **Inspection Procedures**

All loads are visually inspected on arrival by a competent member of staff – either the site manager, a director or a foreman. Most incoming loads are weighed in either over the weighbridge (50 tonnes) or using the set of scales (500kilos).

On arrival and inspection, an incoming load is assessed and a determination is made as to the most suitable location for unloading to take place i.e. where most of the load will be stored. Material can be checked using the spectrometer and material of unknown metal content may be sent away for laboratory analysis.

Each incoming load is issued with a receipt, a copy of which is retained for at least 2 years.

### **Storage Details**

Most material arrives on site loose and is tipped directly into a bay to await processing or resale. The bays are constructed from railway sleepers set in concrete or preformed concrete walls. Other means of storage on site are:

Skips – Steel (8 – 32 cubic yards)

Drums – steel or plastic (45 gallons)

Bins – Steel (4' x 4" x 2' x 6")

Wooden – Wooden (4' z 4') for drums and bales

Crates – Wooden

Bins – Plastic



## **Processing Details**

Both the cranes and the folk lifts may be used to unload material and the loading shovel ensures the material is retained in the designated area.

The solid material is sorted either by hand or by using a folk-lift or a grab. Re-useable steel is stored awaiting export and is rarely processed. Processing of solid material involves only the reduction in size of large items by dismantling, flame-cutting or shearing and baling.

Processing of cables will be carried out by use of granulating machine in building F and on yard 4.

Batteries and turnings are stored awaiting removal to a specialist disposal site. A maximum of 50 Tonnes of batteries are stored at any one time.

Large steel rolls are to be flame cut in area 7 through a fume plant to control emissions.

The main processing operation at this facility is the refining of dross and metal slags generated by foundries and other refiners. This is carried out by grinding and washing material using the mills housed in building A.

The arrangement is such that the material is fed into the top of the milling machine via the hopper and ground down to form a fine powder by two large steel wheels travelling round a circular trough. The coarser material in the trough from where it is removed using a shovel before being sent for drying in the dryer located in building C. The dried material is then graded and stored awaiting resale in building B or C.

The washings from the process feed out through a series of settlement pits where a material-rich sediment precipitates. This is removed approximately once a week and stored in 1a before being sold on for further refining. The water passes through a concrete channel across the site and eventually enters the lagoon to the rear of the premises from where the process water is originally drawn. The process water is effectively contained within the cycle.

## **Processing Equipment**

The equipment available for use on site is as follows:

7 x LORRIES – various makes & models, minimum capacity of 8 tonnes

3 x JCB LOADING SHOVEL

1 x BOB CAT

6 x FORK\_LIFT TRUCKS – 5 x diesel powered, 1 x electric

5 X GRABS

4 X BALERS



2 X SHEARS

2 X CIRCULAR SAW – hand-held, petrol driven

1 X DRYING OVEN

13 X MILLS – 12 x wet, 1 x dry

OXY-ACETYLE/PROPANE CUTTING GEAR

HAND TOOLS

2 X PRESS SHEAR

1 X INCINERATOR

1 X GRANULATION PLANT

1 X CAR DEPOLLUTION BAY

1 X FUME EXTRACTION PLANT (STILL IN R & D PHASE)

### **Residues**

The material is usually sent to foundries, other refineries and occasionally to other metal merchants. Material is sent for export.

The waste oil collected in the interceptor is sent for reprocessing. Any rubbish generated is collected in a skip which is removed to a licensed transfer station or put into the incinerator if suitable. Pallets and wood clean enough for recycling or re-use are stored in area 2 awaiting dispatch.

### **PERSONNEL**

The business employs 50 full-time staff.

36 of the full-time staff are **general yard hands** who are trained all types of operation on the site and whose roles are interchangeable depending on the workload. These are maintained by 2 x **yard foremen** and the **site manager** who has had 10+ years' experience in the trade (see appendix 1). The remaining full time personnel are 4 x working directors, **7 x lorry drivers** and **5 x administrative assistants**.

A foreman or site manager are always present when any loading – unloading or processing is being carried out and there is always a minimum of 2 staff on site during operating hours. In the event of any emergency at the facility, the site manager would be contacted.



## **OPERATIONAL CONTROLS**

In the event of any **unauthorised material** being delivered to or arriving at the facility, it would be isolated as far as practicable and advice sought from the appropriate authorities. Such material would usually be discovered on the weighbridge before off-loading and where possible returned to the producer.

The **yard** and **buildings** are **swept** using a hand broom at least once a week. A steam cleaner is also available for use. A road sweeper is employed once every two weeks.

**Fire fighting equipment** in the form of fire extinguishers and a hosepipe are available for use around the site. Vehicle access for the Fire Brigade is readily available and the emergency authority would be contacted in the event of any fire on the premises.

All equipment is covered by an ongoing maintenance programme and as such regularly serviced and maintained. Any equipment which is not duplicated would be repaired within 48 hours or else a replacement would be hired in or purchased.

Safety equipment in terms of boots, gloves, goggles, ear defenders, a first aid kit and protective clothing are all available for use on the premises. The Health and Safety Executive have visited the site and the relevant safety notices are displayed around the premises. There is no public access to the premises and visitors are supervised at all times.

## **ENVIRONMENTAL CONTROLS**

Spillage of any potentially contaminating liquid would be isolated using a suitable absorbent material and placed in a skip for disposal at a suitable licensed facility.

Any dust arising would be damped down using the hose pipe.

Noise nuisance is limited by the regular servicing of all plant and equipment which are also fitted with the appropriate exhausts and silencers. Care is taken in the handling of material to prevent such a problem arising although the isolated location of the premises and the proximity of the motorway limit any noise nuisance the facility may have on the locality.

All vehicles are inspected before leaving the premises and any debris which may be deposited on the road is removed either by hand or by brush. A steam cleaner is also available for more severe contamination. Outgoing loads are containerised and/or sheeted where appropriate.

Litter is collected on a daily basis and placed in the rubbish skip, ready for disposal at a suitable licensed facility or incinerated,

Vermin and/or insects are inspected for on a daily basis and should an infestation be discovered; a pest control agency would be called in immediately.



**RECORDS**

Records are maintained of all incoming and outgoing loads with destinations and origins of material.

I, the undersigned, do declare that the information contained within this working plan is a true and accurate representation of the manner by which the facility will be operated.

SIGNED ..... (DIRECTOR)

FLEXDART LIMITED

DATE .....





## **APPENDIX 1**

Persons Responsible for site management

### **Directors**

Mr N D Bevan

Mr R Bevan

Mr S Patel

### **Foreman**

Mr R Cummins

Mr R Shakespeare

Mr R Cleaver



## APPENDIX 2

### Designation And Use Of Area / Buildings & Storage Capacities

<u>BUILDINGS</u>	<u>USE</u>	<u>WORKING CAPACITY</u> (Tonnes)
A	Mills for refining	50
B	Storage of dried "grindings"	150
C	Drying furnace and storage of Dried "grindings"	50
D	Cold-cuttings and storage	400
E	Storage of useable steel	1000
F	Bales & Cutting storage of processed Non-ferrous metals and batteries Granulating Cable	
1	Non-ferrous metal storage	500
1a	Sediment Storage	500
2	Non-Ferrous Metal storage	1000
3	Non-ferrous metal storage	500
4	Non-ferrous metal storage	500
5	Non-ferrous metal storage	1000
6	Non-ferrous metal storage	500
7	Foundry dross & skimming's storage	1000
8	Engines & Fridge Motors	1500
9	Steel yard	2000
10	Cable yard	2000
<b>TOTAL</b>		<b><u>12650</u></b>

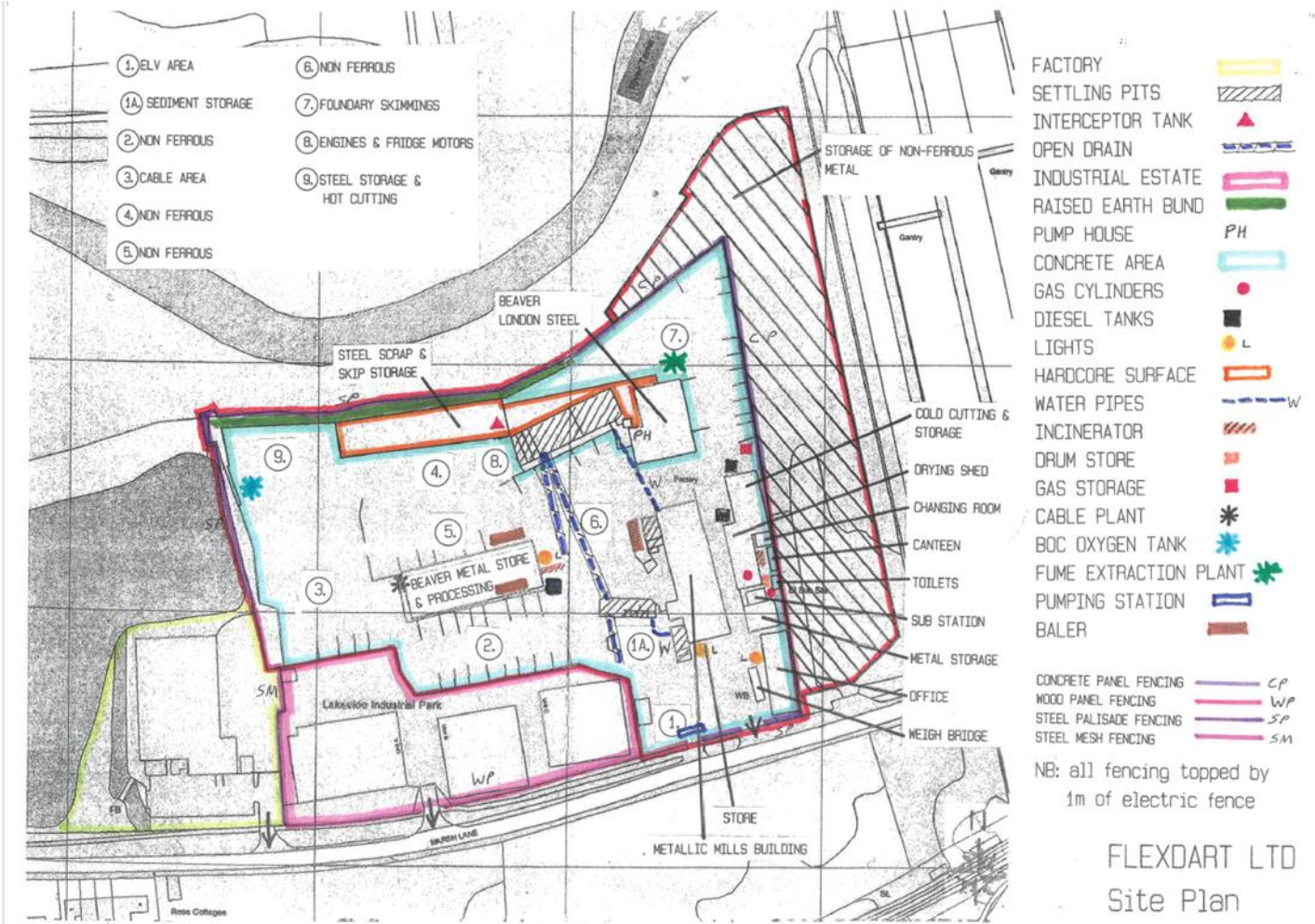
Area tonnages are variable depending on the material stored in them. If the need arises to change the material stored in an area, then tonnages stored there could go up or down.

Storage height to 8m. Camera posts in 10 are 7m high and provide a visual indication of working height.



**APPENDIX 3**

**Site Plan**





**SITE LOCATION PLAN**

**SCALE 1:2500 on A4**



**JOB No. 1534-21**

**FLEXDART SITE  
MARSH LANE  
WATER ORTON**

**LOCATION PLAN  
SCALE 1:1250 @A4**

**DRAWING NO. 1534 - LOC-3**

**Site in Red** 

