

Ref: AP01

AREANI Ltd Supporting Statement

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1. Background

The site is located at Unit 9 Dunchurch Trading Estate, Dunchurch as indicated on the Site Location Plan (see Site Plan 1). The site is an existing industrial unit on one level and is surrounded by other commercial and industrial units and the A45 Coventry Road to the South (see SLP01).

AREANI Ltd are recyclers and refurbishers of second hand electrical equipment some of which, where suitable, is put back onto the market for re-use.

The proposed permission will allow AREANI Ltd to:-

- I) recycle waste electrical equipment , metals, plastics and
- II) produce metal, plastic , glass wood recyclates for use in remanufacture following reprocessing at other sites.
- III) Reclaim packaging waste (cardboard and plastic shrink wrap) for recycling at suitably licensed recycling facilities.
- IV) Sort batteries before transfer to reprocessing facility.

Sean Bulman, Operations Director has 10 years experience in the treatment of wastes and holds various levels of technical competency.

2. Traffic and Transport Assessment

The site is located in just outside of Dunchurch near Rugby on the A45 coventry road/London road junction around 15 miles west of the M1 and is based on an existing industrial estate. This unit has been a distribution warehouse and accepted between 10 and 20 articulated loads in and out per day until closure in early 2008. The estate is not open to the public and is accessed by a gated entrance.

The site will not be open to the general public and will only accept wastes in that are prebooked

It will be principally be serviced by articulated vehicles (2-3 per day initially) building over the course of 5 years to 10 per day as the business grows. Therefore the applicant is

forecasting a decline in commercial traffic versus the usage by the previous occupier.

Our application for an environmental permit will include a maximum annual throughput of 5,000 tonnes. The average weight per artic is around 6 tonnes from experience. This would give us a maximum daily amount of incoming deliveries of 3 loads a day based on 260 working days. The limit imposed by the environmental permit will be absolute and is monitored rigorously. Outgoing loads under these conditions would be based on 30 tonnes of recovered (condensed) materials leaving site on route to a reprocessing site. This would require around 2 trips a week of various materials (plastics, metals etc) when considering the vast amount of ferrous metal will leave site in vehicles carrying up to 21 tonnes.

In reality the throughput of the site will be much less. This site is one of three we operate across the UK. The Dunchurch site will only be accepting redundant equipment arising in the Midlands. The volume we expect to receive annually is around 1500-2000 tonnes as per the historic amounts are northern and southern operations. This will generate around 1 delivery per day or rather 5 per week of which the majority will arrive in the early part of the week. I would expect around 3-4 loads to arrive between Monday-Wednesday and a further 1-2 between Thursday-Friday.

In either case consignments will almost exclusively arrive during afternoon hours, usually between 12-4pm weekdays. Outgoing deliveries of materials are left until the end of the week, usually Thursday-Friday, leaving site during the morning to visit sites around the Birmingham area.

Collections and deliveries are to be carried out using our own drivers and vehicles under direct management from Unit 9 Dunchurch Trading Estate.

3. Waste Management System

3.1 Recycling and Recovery

The application is for change of use to a recycling facility with the business objective of capturing the maximum % of recyclates from any waste arising.

The **WEEE** directive demands minimum standards of recycling and recovery of over 80% - the equipment that WEEE Environmental will receive is principally from commercial catering operations and will offer recycling rates in **excess of 90%** - less than 10% of waste arising to landfill.

Cardboard, metals, plastic and plastic wrap will be 100% recovered for reprocessing at other sites.

Batteries will be stored prior to bulking up and export to suitably licensed recycling facilities.(no treatment on site)

3.2 Origin of Waste Arising

It is a new operation and projections are best estimates – however these have been calculated from industry knowledge :-

- the impact of transport charges on the cost effectiveness of recycling these materials to the waste holder.
- the increasing concerns by organisations regarding the environmental impact of

transporting waste over large distances.

Plastics, cardboard, metal and plastic wrap will be 90% arising within 5 miles of the facility – a further 10% will arise within 10 miles.

75 % of the WEEE will be arising within 25 miles of the facility.

All batteries will arise within 20 miles of the facility.

4. Operations and Equipment

The applicant proposes to use various types of plant and equipment including baler, shredder, granulator, grab and forklifts with all treatment **operations carried out inside** the unit which is 350 metres from the nearest domestic residence.

The site will be used to store, treat and recycle waste electrical products, metals and plastics and the packaging. The recyclates will be passed to suitably licensed reprocessors for the re- manufacture of new product.

Waste equipment that arises on site will be assessed as to the viability of refurbishment for re-use in the first instance; where applicable it will be refurbished, electrically tested and put back on the market.

Electrical Equipment that is not deemed suitable for refurbishment or component re-use will be stripped and treated to produce separate recyclates.

Baling, shredding and granulating of plastic, glass and metals will take place.

The operator will store waste equipment and recyclates as identified in the site layout plan (Site Plan 1).

There will be no chemical processes on site – certain of the items will contain small quantities of hazardous components (NiCad batteries, mercury switches, refrigerant) these will be removed in an environmentally sound manner to the technical standards demanded by the Environment Agency and stored in suitably secure and approved containers until removal from site. These hazardous components will be transported in suitable secure containers for either final disposal site or reclamation at suitably licensed facilities.

5. Existing infrastructure

There will be no change to the structure of the building, access or enclosure arising from this application. The site has a level surface.

The de-production line / treatment area and other plant will be sited inside the building as shown on layout plan (Site Plan 1)

6. Employment

The business plan forecasts 9 full time employees in year 1 of operations building further as throughput develops.

7. Flood Risk

The site is not situated in a high flood risk zone.

8. Conclusion

The proposed development adds extra recycling facilities in an existing industrial estate to the Rugby area and reflects the Local Plan.

9 Addendum

HAZARDOUS WASTE ON SITE.

Please note – hazardous waste stored on site – the list of hazardous wastes in the portal ‘drop down boxes’ does not identify the hazardous wastes that will be stored on site . The detail below lists the hazardous wastes as determined by the European

Waste Catalogue (the criteria used by the Environment Agency to manage and monitor hazardous waste streams through industry and Waste Management Operations). This list is more extensive than that in the planning portal.

Subject to the necessary Permit from the Environment Agency the business proposes to have the following hazardous wastes on site. The volumes allocated below represent the volumes forecast by the business .

1. Display Screen Equipment (TV's / Computer Monitors).This equipment is expected to have a throughput of 50 Tonnes in year 1 - **MAXIMUM STORED AT ONE TIME – 5 TONNES**

2. Fluorescent lighting equipment. Throughput of 0.5 tonne pa

– No treatment will be undertaken on this equipment. The product will be bulked up and passed to suitably licensed recyclers and reprocessors. **MAXIMUM STORED AT ONE TIME – 100 KILO'S**

3. Refrigeration (cyclopentane, CO2 based blowing agents). Expected throughput of refrigeration year 1 will be 1,000 tonnes.

This equipment will be de-gassed and de-oiled on site and recycled. ODS blowing agents will not be treated on this site. The age of refrigeration equipment and the producers phase out date of ODS will be confirmed with the producer to determine the nature of the blowing agent. Refrigeration equipment treated on site will primarily be commercial display and air conditioning units. Refrigerant gases will be extracted and condensed inline with the ODS and F-Gas regulations for consignment to gas incineration at BOC Grimsby. Lower explosion limit of Cyclopentane blown PUR reprocessing will be monitored. **MAXIMUM STORED AT ONE TIME 90 TONNES.**

4. Batteries. Maximum Volume stored at one time 10 tonnes.

Certain Electrical equipment contains batteries and these will be recovered intact during treatment– lead acid, NICAD. Car batteries will be stored on site in suitable containers. No treatment will be undertaken on this site on batteries. These products will be stored on site and passed to suitably licensed recyclers and reprocessors.

5. Other hazardous items re-claimed from electrical equipment. Projected volumes circa 200 kilo's pa

Small quantities of other hazardous components reclaimed intact from other non hazardous electrical equipment will be :-

Plastic contaminated with brominated flame retardants'.

Printed circuit boards.

Electrical Switches containing mercury.

No treatment will be undertaken on these components. They will be stored on site and passed to suitably licensed recyclers and reprocessor.

No chemical treatment will be undertaken on any equipment at this site.