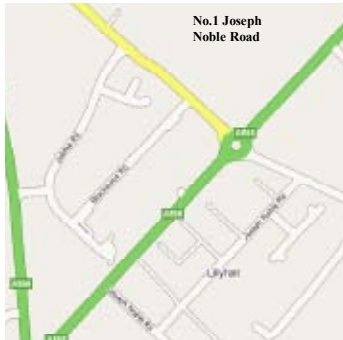


## PROPOSED LOCATION AND INTENDED USE OF THE METALS RECYCLING FACILITY OPERATED BY STUDSVIK UK LIMITED



Studsvik UK Limited plan to develop the disused property at 1 Joseph Noble Road, Lillyhall Industrial Estate, Workington, Cumbria as a metals recycling facility. The facility will serve the UK's nuclear industry whose sites are now being decommissioned under the control of the Nuclear Decommissioning Authority (NDA). In order to meet the Government's targets for decommissioning, new facilities need to be constructed to provide alternative methods for cleaning the materials that will be removed during the decommissioning of nuclear sites.

This facility will also help to ensure that the amount of Low Level Waste (LLW) that is sent for disposal to the National Low Level Waste Repository near Drigg in Cumbria is kept to a minimum. This is in line with UK low level waste policy and waste hierarchy for storage and disposal of radioactive waste.

Studsvik is an experienced global nuclear services company head quartered in Sweden. Studsvik have purchased the freehold site at 1 Joseph Noble and have made applications to the Environment Agency and Health and safety Executive for the necessary Authorisations and Licences to operate the facility. Alongside these applications, Studsvik has received planning permission from Cumbria County Council to allow the site to be developed and waste management activities to be undertaken at the site.

The site will process materials and waste with low levels of radioactivity, which will be brought to the site in specially designed and certificated transport containers of similar appearance to normal industrial shipping containers. Typically, around two to three containers will be transported to and from the site each week, so the number road movements to and from the site will be very low. The transport containers to be used are certified and tested to ensure that their contents cannot escape during transport or storage.

To process the materials, the containers will be moved by a large forklift truck and docked onto the site of the facility so they can be unloaded or brought entirely inside the processing building to be unloaded. In order to process the materials, Studsvik will use a range of industrial cutting and cleaning techniques that will all be contained within the processing building.

Cleaning of the materials will be undertaken by techniques such as dry grit blasting which will be undertaken in automated blasting chambers. An automated compaction machine will also be used in the facility. All of these processes will be operated by trained operators and specialist radiation monitoring personnel will be in attendance at all times. Furthermore,

The resulting materials will be cleaned metal which will either be sent for recycling in the UK, or potentially sent to our facility in Sweden which can further clean the metal by melting in a furnace. The residues from cutting and blasting will contain the majority of the radioactivity and will be collected and packaged in drums and containers for disposal to the National Low Level Waste Repository at Drigg. Overall, it is expected that the process will reduce the volume of incoming waste needing to be sent for disposal by 95%.

The low levels of radioactivity that will be handled in the facility will mean that it will be safe for the workers to generally wear only standard Personal Protective Equipment for protection. This is typical for our site in Sweden which operates to the same European Directives regarding the protection of the work force and the public.

The site will be aesthetically improved and developed. During the development phase of the facility, the buildings and outside areas will be improved, modified and refitted. Part of the current building will be extended and new equipment installed. A site boundary fence will be installed to and a security lodge will also be constructed.



**3D architectural view of the proposed facility**

The Facility during the period of its life will only accumulate radioactive material for the length of time it takes to process, recycle and clean that material. The site will not store radioactive material on site longer than it is necessary for it to be processed, recycled and cleaned.

There will be no disposal of radioactive material at the site; the radioactive material remaining from the cleaning and recycling processes will be disposed of to the National Low Level Waste Repository at Drigg.

In deciding upon the site and the processes to be used, Studsvik considered a number of alternatives. The site was chosen because of its industrial location with similar industrial facilities, the suitability of the existing building, the good transport infrastructure in the area including road, rail and sea, the availability of qualified personnel in the area and the sites proximity to the National Low Level Waste Repository. The processes were selected based on knowledge and experience of identical processes that have been safely and successfully used at other Studsvik sites and their ability to safely contain any radioactive residues.