



IQE Silicon Compounds Limited, Newport
Semi Conductor Facility, Site Closure Plan

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Introduction

This plan describes how all buildings and associated infrastructure at the IQE Silicon Compounds Limited production facility Newport will be decommissioned in a safe and environmentally responsible manner prior to the surrender of permit EPR/AB3893FZ at the end of production operations at this site.

General

The IQE facility was originally constructed in 2000 as part of the LG development but only the shell of the building was completed at that time and it was never fitted out for occupation, standing empty ever since.

IQE acquired the building for its new semi-conductor manufacturing facility as part of the Cardiff Capital Region City Deal and has spent £38 million renovating the original building and facilitating its manufacturing operation.

Prior to refurbishment commencing a comprehensive asbestos survey was undertaken and no asbestos containing materials (ACM's) are incorporated into the main fabric of the building.

In the event of total site demolition ACM's will not present a risk to the safety of any third party contractors or the local environment.

Toxic gases & gas lines

All toxic gas lines and associated plant and equipment will be nitrogen purged for a minimum of 12 hours prior to removal. Stainless steel gas lines and fittings will be removed and sent away for recycling by an appropriately licenced recovery specialist.

Residual cylinders containing toxic gases will be returned to the original supplier for reclamation or disposal.

Non- toxic gases and gas lines

The bulk nitrogen storage tank will be drained by Air Products Plc prior to decommissioning (refer to bulk gas facilities in original application document).

Nitrogen lines within the facility will be removed and recycled through an appropriate route. Internal Hydrogen lines will be nitrogen purged for a minimum of six hours prior to removal for safe disposal.

Toxic contaminated manufacturing equipment

Equipment which is to be re-sold for continued use will be de-commissioned and prepared for transportation in line with the requirements of Semi Standard S12-0298 (Guidelines for Equipment decontamination).

Equipment which is at the end of its useful working life will be decommissioned in line with the requirements of the above standard and sent away for recovery by an appropriately licenced specialist.

Metal alkyls

All metal alkyls will be returned to the original supplier for recovery and reprocessing.

Bulk Gas Facilities

The bulk nitrogen storage facilities are leased from, and remain the property of, Air Products Plc. Air Products are responsible for the safe decommissioning and disposal of the bulk tank and associated gas delivery pipework. IQE will have oversight of all Air Products on-site activities and will ensure that the equipment is disposed of in line with applicable legislative requirements at the time of removal.

Hazardous Waste

All hazardous waste will be disposed of using appropriately licenced contractors and waste disposal facilities. IQE will retain records of all waste disposal activities which will be submitted to NRW upon final decommissioning.

Air handling & Chiller Units

All units will be de-gassed by an appropriately licenced contractor. The units will then be sent for re-cycling via a licenced third party.

Site Demolition

In the event that the site is demolished for eventual re-development then recognised dust suppression techniques such as sheet enclosure and damping down will be utilised. All metals in the structure of the building will be sent for recovery. Brick and blockwork will be crushed and sent for re-use via a third party contractor.

Soil sampling

In order to ensure that no contamination is present when the facility is vacated, either for demolition purposes or to be used by a new occupier IQE will undertake soil sampling in the same locations as tested for the original EPR permit application.

The samples will be analysed for the substances identified in the original application site report and the results forwarded to NRW.