



IQE (Europe) Ltd.
Site Closure Plan

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Introduction

This plan describes how all buildings and associated infrastructure at the IQE Europe Limited production facility will be decommissioned in a safe and environmentally responsible manner prior to the surrender of PPC permit KP3235SS at the end of production operations at this site.

General

The IQE facility was originally constructed in the late 1980's and extended to accommodate more equipment in later years. A full asbestos survey has been undertaken of both the original and newer parts of the facility 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 and hydrogen storage tanks will be drained by Air Products PLC prior to decommissioning (refer to bulk gas facilities).

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 hydrogen and 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 tanks 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.

Bulk Sodium Hypochlorite & Hydroxide vessels

Both vessels will be drained of their respective contents and flushed with water until a neutral Ph reading is obtained. All water used to flush the tanks will be captured and sent off site for treatment prior to disposal. Both vessels will then be decommissioned in line with Semi Standard S12-0298 if to be sold for re-use or relevant applicable legislation if to be scrapped.

Hazardous Waste Compound

All vessels and containers within the compound will be disposed of as hazardous waste.

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 following locations where it is reasonably foreseeable that contaminants may be present:

- The area adjacent to the waste compound and bulk liquid storage tanks
- The area adjacent to the gas storage bunkers

The samples will be analysed for the substances identified in the original application site report. The results will be forwarded to National Resources Wales for comparison with the values in table 3.1 of the original report.