

Saffil Ltd (Widnes) – EPR Permit Variation Application – Line 4

Glossary of abbreviations:

Term	Meaning
ACH	Aluminium chlorohydrate (Al_2OH_5Cl) (metal salt used as a raw material)
ALARP	As low as reasonably practical
Alumina	Aluminium oxide (Al_2O_3)
BAT	Best Available Technique – recommendations based on international studies of best abatement technologies
BREF	Best Available Technique Reference Document – statutory technical publication detailing recommended techniques/technologies for abatement and minimising emissions
CCA	Climate Change Agreement – site agreement with national authority to reduce specific energy consumption (SEC)
CEBOS	Name for the computerised procedure control system used in the company
COD	Chemical Oxygen Demand – measure of capacity of an effluent stream to consume oxygen during the decomposition of organic matter in water.
COSHH	Control of Substances Hazardous to Health Regulations
DCS	Distributed Control System – a system that has measurements from process devices brought into a single interface for the control and operation of the manufacturing process
EA	Environment Agency
EAL	Environmental Action Limit – statutory ground level concentration based limits
ELV	Emission Limit Value – permitted limit on stack emission
GRP	Glass reinforced plastic
H1 Assessment	Preliminary risk assessment completed using a software tool developed by the Environment Agency to assess the impact of hazardous pollutants on emission to air and water
HCl	Hydrochloric acid (a gas made in the process and scrubbed using water)

HT	High temperature (used in association with ovens and kilns in the fibre production process)
IBC	Intermediate Bulk Container (plastic container usually around 1 m ³ capacity)
IPC/IPPC	Integrated Pollution Control/Integrated Pollution Prevention and Control. Predecessors to the Environmental Permitting Regulations.
LED	Light emitting diode (used in low energy usage lighting)
LT	Low temperature (used in association with ovens and kilns in the fibre production process)
MCERTS	Monitoring Certification Scheme – national scheme for validating stack emission monitoring techniques and results reporting
M-Fil	All grades of fibre made to M-Fil alumina-silicate chemistry (c. 70% alumina)
NOx	A generic term used to describe nitrogen oxides (nitric oxide and nitrogen dioxide)
OEE	Overall Equipment Effectiveness (a measure of production capability calculated: rate x availability x quality)
PDCA	Plan, Do, Check, Act
PEO, Polyox	Polyethylene oxide (long chain organic compound used as a raw material)
Saffil fibre	All grades of fibre made to Saffil alumina-silicate chemistry (c. 96% alumina)
SEC	Specific energy consumption (eg kWhr/tonne)
SiFAB™	A new silicon fibre based product designed for use in Lithium ion batteries as an anode material
Silica	Silicon dioxide (SiO ₂)
Silica fibre	All grades of fibre made to Silica fibre chemistry (c. 90% silica)
SQDPCM	Safety, Quality, Delivery, Productivity, Cost, Morale
SS	Stainless steel
TDS	Total dissolved solids – a measure of concentration used in cooling tower and boiler waters

UU	United Utilities – current Widnes site industrial sewerage provider
VOC	Volatile Organic Compounds
VSD	Variable speed (electrical) drive