

Permit Number: EPR/BU5453IY
Operator: AGC Chemicals Europe Limited
Facility: AGC Chemicals Europe, Hillhouse

Form Number: Energy 1 / 2017

Reporting of Energy Usage / Export for the year from ...January 2022... to ...December 2022...

Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	MWh	26,953.885 MWh	7.097 MWh/unit output
Natural Gas	MWh	67,183.548 MWh	17.689 MWh/unit output
Gas Oil	tonnes	-	-
Recovered Fuel Oil	tonnes	-	-
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

- Total production tonnage for 2022: 3798 tonnes

Signed*:
Date: 31/01/2023
(*authorised to sign as representative of AGC Chemicals Europe Limited)

Permit Number: EPR/BU5453IY
 Operator: AGC Chemicals Europe Limited
 Facility: AGC Chemicals Europe, Hillhouse

Form Number: Performance 1 / 2017

Reporting of other performance indicators for the year from ...January 2022... to ...December 2022...

Parameter	Annually	Result
Total plant production	tonnes	3798 tonnes
Recovered TFE per tonne of ETFE	tonnes	0.0046 tonne / per tonne of ETFE [1]
Total liquid waste thermally treated on-site	tonnes	0 tonnes
Availability of the thermal treatment plant	% of installation production hours	0% [2]
Water usage (mains)	m3	315,003 m ³
Total bulk raw material used	tonnes	1.747 tonne / tonne of product
Waste disposal and/or recovery	tonnes	Overall waste tonnage generated: 3155 tonnes Hazardous waste: 1963 tonnes Non-hazardous waste: 1193 tonnes
Tetrafluoroethylene (TFE) released to air per tonne of product	TFE kg/t	1.010 kg/t [1]
Hydrogen fluoride (HF) released to air per tonne of product	HF kg/t	3.69 kg/t FL1679 & FL1680 production tonnage for 2022: 32.77t
Suspended Solids (SS) released to the River Wyre per tonne of product	SS kg/t	4.14 kg/t
Chemical Oxygen Demand (COD) released to the River Wyre per tonne of product	COD kg/t	70 kg/t
Octylphenoethoxylate (OP10) released to the River Wyre per tonne of product	OP10 kg/t	n/a all results <0.01 µg/ml OP10 is no longer used in AGC Chemicals Europe process
SAA-1000 released to the River Wyre per tonne of product	SAA-1000 kg/t	0.000285 kg/t Awaiting December result to confirm result for 2022.
Fluoride (F) released to the River Wyre per tonne of product	F kg/t	0.51 kg/t
Total number of days where the limit of 250mg/l was effective during maintenance of the on-site effluent treatment process	days	0 days
Caustic soda usage at thermal treatment plant	tonnes	0 tonnes
Periods of abnormal operation of thermal treatment plant	No of occasions and cumulative hours for current calendar year	0
Periods of venting via air emission points A1, A2 and A6 when the thermal treatment plant is not operational	No of occasions and cumulative hours for current calendar year	Low Boiler Stack A1: 365 days Waste Acid Stack A2: 365 days ETFE Reactors purge A6: 365 days, not commissioned to the Thermal Treatment Plant

Operator's comments

- [1] Class B VOC TFE expressed as carbon, this includes TFE release via relief stream A9.
- [2] The Thermal Oxidiser remained offline in 2022 while undergoing repair as discussed with EA. Recommissioning is planned for Q1 2023.

Signed*: XXXXXXXXXX

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