Reference Number: PPC/A/1013494/VN02

SCOTTISH ENVIRONMENT PROTECTION AGENCY

POLLUTION PREVENTION AND CONTROL ACT 1999

POLLUTION PREVENTION AND CONTROL (SCOTLAND) REGULATIONS 2012 ("THE REGULATIONS")

NOTICE OF VARIATION TO PERMIT

Permit No: **PPC/A/1013494 (As Varied)**

To: **ExxonMobil Chemical Limited**

Address: **Ermyn Way**
Leatherhead
Surrey
KT22 8UX

The Scottish Environment Protection Agency ("SEPA"), in exercise of its powers under Regulation 46 of the Regulations, hereby gives you notice that it has decided, to vary permit PPC/A/1013494 (As Varied) granted under the Regulations in respect of the operation of an installation on a site at Fife Ethylene Plant, Beverkae House, Mossmorran, Cowdenbeath, Fife, KY4 8EP. The variations are specified in the Schedule to this notice and take effect on 1 JANUARY 2016.

Signed: [redacted] Date: 22 December 2015

Authorised to sign on behalf of the
Scottish Environment Protection Agency

Right of Appeal

Under Regulation 58 of the Regulations you are entitled to appeal to the Scottish Ministers against the conditions attached to this Notice, except where SEPA has served this Notice to implement a direction to SEPA of the Scottish Ministers. The bringing of an appeal will not have the effect of suspending the operation of the conditions attached to this Notice. The procedures and timescales for the making of an appeal are set out in Schedule 8 of the Regulations.

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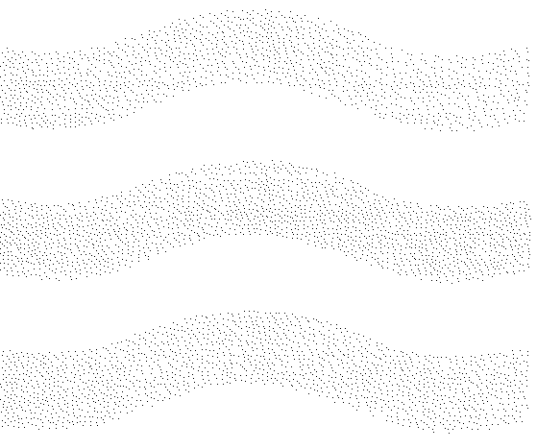


Scottish Environment Protection Agency

SCOTTISH ENVIRONMENT PROTECTION AGENCY

POLLUTION PREVENTION AND CONTROL ACT 1999

POLLUTION PREVENTION AND CONTROL (SCOTLAND) REGULATIONS 2012 ("THE REGULATIONS")

SCHEDULE TO NOTICE OF VARIATION UNDER REGULATION 46(8)

Operator: **ExxonMobil Chemical Limited Fife Ethylene Plant**
Permit Number: **PPC/A/1013494**
Date of Permit: **29 October 2007**
Variation No: **VN02**

Permit number PPC/A/1088953 (As Varied) has been varied as follows

1. In Interpretation of Terms the following terms are deleted:

   "the Regulations" means the Pollution Prevention and Control (Scotland) Regulations 2000 as amended;

2. In Interpretation of Terms the following terms are inserted

   "CEN" means Comité Européen de Normalisation standard and "CEN Standard" is construed accordingly;

   "CO_2" means carbon dioxide

   "CO" means carbon monoxide

   "combustion plant" has the meaning given in Article 3(25) in IED.

   "Industrial Emissions Directive" or "IED" means Directive 2010/75/EU on Industrial Emissions (Integrated Pollution Prevention and Control) (Recast);

   "Large Combustion Plant" or "LCP" means any combustion plant subject to Chapter III and Annex V of IED and for the purposes of this Permit means those combustion plants identified in Paragraph 1.1.4.3 of Schedule 1.

   "minimum start-up (SU) load for stable generation" has the meaning given in Article 2(1) of the Commission Implementing Decision 2012/249/EU of 7 May 2012 concerning the determination of start-up and shut-down periods for the purposes of IED;

   "minimum shut-down (SD) load for stable generation" has the meaning given in Article 2(2) of the Commission Implementing Decision 2012/249/EU of 7 May 2012 concerning the determination of start-up and shut-down periods for the purposes of IED;

   "Nitrogen Oxides" or "NOx" means the sum of nitrogen oxide and nitrogen dioxide, and the mass concentration or mass of NO_x is expressed as the equivalent nitrogen dioxide concentration;

   "the Regulations" means The Pollution Prevention and Control (Scotland) Regulations 2012 SSI 2012 No. 360 (as amended);

"SO_2" means sulphur dioxide

Any term or expression already defined in the Regulations or the Industrial Emissions Directive shall be taken to have the same meaning as provided in the Regulations or the IED itself;

3. In Schedule 1, Paragraph 1.1.3.1 and 1.1.3.2 are deleted and replaced by the following new paragraphs:

1.1.3.1 The burning of gaseous and liquid fuels in eleven combustion appliances with an aggregated net thermal input of approximately 830 MW being an activity listed in Part A Section 1.1 of Chapter 1, Part 1 of Schedule 1 of the Regulations; described as burning any fuel in a combustion appliance with a rated thermal input of 50 megawatts or more.

1.1.3.2 The burning of gaseous fuels in seven combustion appliances with an aggregated net thermal input of 116 MW being an activity listed in Part A Section 1.1 of Chapter 1, Part 1 of Schedule 1 of the Regulations; described as burning any fuel in a combustion appliance with a rated thermal input of 50 megawatts or more.

4. In Schedule 1, Paragraph 1.1.4.3 is deleted and replaced by the following new paragraph:

1.1.4.3 Three combustion plants EIONET LCP Numbers 153, 154 and 155 relating to steam raising boilers Z-SG-01 A, Z-SG-01 B and Z-SG-01 C respectively, all fired by fuel gas and liquid fuel each with a net rated thermal input of 67 MW;

5. In Schedule 1, the references to "Sulphinol "in paragraphs 1.1.4.5d) (iii) and (iv) are deleted and replaced with "Feed-Treatment Unit solvent" or "FTU solvent".

6. In Schedule 2, the following changes are made to Condition 2.4 incidents:

a. conditions 2.4.1 to 2.4.3 and condition 2.4.6 are deleted; and,

b. condition's 2.4.4 and 2.4.5 are renumbered as condition's 2.4.6 and 2.4.7 respectively;

c. the following new conditions 2.4.1 to 2.4.5 inclusive and condition 2.4.8 are inserted:

2.4.1 In the event of an incident all necessary measures shall immediately be taken:

a) to prevent, or where that is not practicable to reduce, emissions from the permitted installation;

b) to limit the environmental consequences as a result of that incident; and

c) to prevent further possible incidents.

2.4.2 Without prejudice to the requirements of condition 2.4.1, in the event of a breach of any condition of this permit the operator shall immediately take the measures necessary to ensure that compliance is restored in the shortest possible time.

2.4.3 Notwithstanding the requirements of condition 2.4.1 and 2.4.2 where a breach of any condition of this permit or an incident poses an immediate danger to human health, or threatens to cause an immediate significant adverse effect on the environment, the operator shall suspend operation of the permitted installation or relevant part thereof until such time as it can be operated in compliance with this permit.

2.4.4 In the event of an incident and/or a breach of any condition of this permit, the operator shall notify SEPA by telephone without delay to 0800 80 70 60. A notification that relates to an incident shall include as far as practicable the information specified in condition 2.4.5.

2.4.5 The operator shall confirm any incident to SEPA in writing by the next working day after identification of the incident. This confirmation shall include: the time and duration of the incident, the receiving environmental medium or media where there has been any emission as a result of the incident, an initial estimate of the quantity and composition of any emission, the measures taken to prevent or minimise any emission or further emission and a preliminary assessment of the cause of the incident.

2.4.8 At least every 4 years, the operator shall review the incident prevention and mitigation plan required under condition 2.4.7. Each review of the said incident prevention and mitigation plan shall be recorded and where the operator makes any revisions to the said plan, said revisions shall be recorded.

7. In Schedule 2, the following rows are deleted from Table 2.1 - Reporting and Notification Requirements:

Incident notification	2.4.2, 2.4.3	Without delay by telephone, confirmation in writing by the next working day	As required
Incident investigation report	2.4.4	Within 14 days of the date of the Incident unless otherwise agreed in writing with SEPA	As required

8. In Schedule 2, the following rows are inserted into Table 2.1 - Reporting and Notification Requirements:

Incident notification	2.4.4, 2.4.5, 4.3.2, 4.3.4 & 4.3.5	Without delay by telephone, confirmation in writing by the next working day	As required.
Incident investigation report	2.4.6	Within 14 days of the date of the Incident unless otherwise agreed in writing with SEPA	As required
Periodic Monitoring	5.2.5	Six monthly within six weeks	Report for first

Reports		of completion of the monitoring	half of 2016 due within six weeks of completion of the monitoring
Mass emissions to air	5.2.5	Annually within 2 months from the end of the calendar year	28 February 2016 for year ending 31 December 2015
Operating hours	5.2.5	Annually within 1 month of the end of the calendar year	31 January 2017 for first annual report
Energy Input per fuel	5.2.5	Annually within 1 month of the end of the calendar year	31 January 2017 for first annual report
LCPs where Article 30(5) may apply	5.3.5.1 a)	As required	Without delay
LCPs where Article 30(5) may apply	5.3.5.1 b)	As required	Without delay
Notification of change to SUSD periods for LCPs	5.3.5.1 c)	As required	14 days prior to changes being made

9. In Schedule 2, Table 2.3 the reference to "sulphinol" is deleted and replaced with "Feed Treatment Unit solvent".

10. In Schedule 3, Condition 3.4.1 is deleted and replaced by the following new Condition:

    3.4.1 The Operator shall not burn waste (as defined in Article 3 (37) of IED at the Permitted installation.

11. In Schedule 4, the columns for Emission Points A08, A09 and A10 are deleted from Table 4.1 - Emissions to Air ELVs

12. In Schedule 4, the description for Emission Source for Emission Point A14 is deleted and replaced by the following new description: "Feed Treatment Unit Vent".

13. In Schedule 4, Tables 4.2, 4.3 and 4.4 are deleted and replaced by the following new Tables:

Table 4.2 - Emissions to Air Monitoring Requirements

Parameter	Emission point number	Spot Sampling (SS)		
		Standard	Frequency	Operational Mode
Oxides of Nitrogen	A01 to A07 and A11	Direct measurement with Testoterm 350 Flue Gas Analyser	Quarterly	Operational
Oxides of Sulphur	A11	Direct measurement with Testoterm 350 Flue Gas Analyser	Quarterly	Operational
Smoke	A01 to A07 inclusive, A16, A17, A18 & A19	BS 2742:1969	Start Up / Shut Down	Start Up/ Shut Down
			Daily	Operational
Thermal Input (MW)	A01 to A07 inclusive	Online Continuous Measurement	Monthly	Operational
Temperature	A01 to A07 inclusive	Continuous online measurement	Continuous	Operational
Operating Rate	A01 to A07 inclusive	Continuous online measurement	Continuous	Operational
Type of fuel being burned	A01 to A07 inclusive	Continuous online measurement	Continuous	Operational
Oxygen %	A01 to A07 and A11	Continuous online measurement	Continuous	Operational

Table 4.3 - Reference Conditions

Emission Point Number	Reference Condition
A01 to A07 inclusive	Dry, 273K, 101.3kPa, Oxygen 3%v/v
A11	Dry, 273K, 101.3kPa, Oxygen 15%v/v

Table 4.4 - Mass Emissions to Air

Parameter	Combined Emissions (Number)	Method (Summary)	Mass Emissions Result to be recorded as
Oxides of Nitrogen (expressed as nitrogen dioxide)	A01 to A07 inclusive, A11, A16, A17, A18 & A19	As Agreed in writing with SEPA	Tonnes per month
Oxides of Sulphur	A11		Tonnes per month
Carbon Dioxide	A01 to A07 inclusive, A11, A14, A16, A17, A18 & A19		Tonnes per month
H_2S	A14		Tonnes per month
Total Organic Carbon	A11, A13, A16, A17, A18 & A19		Tonnes per month

14. Condition 4.7.4, Condition 4.7.5 and Table 4.11 all in schedule 4 are deleted.

15. The following new Schedule is inserted after Schedule 4:

SCHEDULE 5 CONDITIONS APPLYING TO LARGE COMBUSTION PLANT (Activities Subject to Chapter III of Directive 2010/75/EU)

5.1 Air Emission Conditions

5.1.1 The emissions to air specified in Table 5.1, shall only be permitted from the emission locations specified in that Table and shall not exceed the limits specified in those Tables and / or in Condition 5.1.2.

5.1.2 Periodic Monitoring Averages, determined in accordance with Condition 5.1.3, shall comply with the criteria specified below:

5.1.2.1 No Periodic Monitoring Average shall exceed 100% of the value specified in Table 5.1 for NOx, SO_2 or dust.

5.1.3 The Operator shall undertake the monitoring of emissions to air as specified in Table 5.2 in accordance with the requirements specified in Table 5.2 and Condition 5.2.

5.1.4 All Periodic Monitoring Averages shall be expressed at the reference conditions specified in Table 5.3.

5.1.5 The Operator shall record the information specified in Condition 5.2.3 and 5.2.4 and report to SEPA the information specified in Condition 5.2.5.1 at the frequency specified in Condition 5.2.5.2.

5.2 Monitoring of Emissions to Air

5.2.1 The technique employed for the periodic monitoring of any substance listed in Table 5.2 shall be:

a) the current CEN standard; or

b) where no CEN standard is available (and only in that circumstance): the default method for that substance as appropriate; or

c) alternative methods may be used provided the Operator can demonstrate equivalence to the relevant CEN standard by using CEN/TS 14793.

5.2.2 Monitoring personnel, equipment and organisations shall have a quality system accredited to BS EN ISO/IEC 17025 and CEN/TS 15675 as appropriate and laboratory analysis shall be carried out by an organisation accredited to ISO/IEC 17025, unless otherwise agreed in writing with SEPA.

5.2.3 Data Handling and Reporting - Periodic Monitoring (Emissions to Air)

5.2.3.1 Whenever periodic monitoring of those substances or parameters specified in Condition 5.1.3 is being undertaken the following information shall be calculated and/or recorded:

a) the date, time, duration and results of all monitoring;

b) the name of the person(s) carrying out periodic monitoring; and

c) the results of all tests and data used to correct monitoring results to the reference conditions specified in Condition 5.1.4; and

d) any deviations from the monitoring methods specified in this Schedule and the associated confidence interval; and

e) the type(s) of fuel or fuels being used during the periodic monitoring period, the average feed rate of any fuel or fuels being fed and the operating rate of the LCP expressed in MW net thermal input and as a percentage of the maximum continuous rating (% MCR); and

f) any abnormal or unusual operating conditions or breakdowns that occurred during the periodic monitoring period; and

g) details of any relevant continuous monitoring for the period which coincides with the sampling period; and

h) the mass of the substance collected during the said sampling period; and

i) the volume of gas extracted during the sampling period; and

j) the emission concentration values, standardised where appropriate to the reference condition specified in Condition 5.1.4, for each substance specified in Condition 5.1.3, shall be calculated from the information detailed in Condition 5.2.3.1 h) and i); and expressed as an average value over the periodic monitoring period specified by Condition 5.2.1, with no subtraction of any sampling uncertainty levels from the reported result and this shall be referred to as the "Periodic Monitoring Average" for that substance.

5.2.3.2 The Operator shall report to SEPA in writing the results of all periodic monitoring, in accordance with the requirements of BS EN ISO/IEC 17025 and CEN/TS 15675. Said report shall include the information specified in Condition 5.2.4.1.

5.2.4 Recording (Emissions to Air)

5.2.4.1 The following information shall be recorded:

a) the results of all tests and data used to correct monitoring results to the reference conditions specified in Condition 5.1.4; and

b) the results of all periodic monitoring required to be monitored by Condition 5.1.3 and presented in accordance with the requirements of Condition 5.2.3.2; and

c) the mass emissions of those pollutants required to be monitored as specified in Condition 5.1.3 and all relevant information used to calculate or estimate each mass emission; and

d) the number of Operating Hours in each year for each LCP; and

e) without prejudice to Condition 2.5.2, the total energy input from each fuel into each LCP for which an emission point is specified in the Condition 5.1.1, based on the net calorific value (in TJ) of each fuel for each year including description of the type of all solid, liquid and gaseous fuels.

5.2.5 Reporting (Emissions to Air)

5.2.5.1 A report shall be submitted to SEPA containing the information recorded in accordance with Condition 5.2.4.1 (excluding Condition 5.2.4.1 a)) relevant to each specified reporting period.

5.2.5.2 The reports required by Condition 5.2.5.1 shall be submitted at the following frequencies:

a) the results of periodic monitoring required by Condition 5.2.4.1 b) shall be submitted within six weeks of completion of the monitoring or within six weeks of the end of the six monthly reporting period, whichever is sooner; and

b) those mass emission reports required by Condition 5.2.4.1 c) shall be submitted annually within one month of the end of each calendar year; and

c) the operating hours and total energy input in fuel reports required by Condition 5.2.4.1 d) and e) respectively shall be submitted annually within one month of the end of the calendar year.

5.3 Operation of Process

5.3.1 Start-Up and Shut-Down (SUSD)

5.3.1.1 A "Start-Up" period means any period of operation below the Minimum Start-Up Load (MSUL) for stable generation specified in Table 5.5. A "Shut-Down" period means any period of operation below the Minimum Shut-Down Load (MSUDL) for generation and at the initiation of termination of fuel supply specified in Table 5.5.

5.3.1.2 The Operator must ensure that Start-Up and Shut-Down periods are minimised as far as practicable.

5.3.2 Operating Hours

5.3.2.1 Within this Schedule of the Permit, "Operating Hours" means the hours of operation of any LCP excluding any operational time subject to Condition 5.3.1.1 (start up and shutdown periods).

5.3.2.2 Without prejudice to Condition 5.3.2.1, for the purposes of the calculation of the average emission values, the following values shall be disregarded:-

a) Those values measured during the periods referred to in Article 30(5) and Article 30(6) of IED;

b) Those values measured during start-up and shut-down; and

c) Those values relating to any periods which SEPA agrees in writing can be disregarded due to operational factors."

5.3.3 Multi-Fuel Firing Conditions

5.3.3.1 Where different fuels, or fuel mixtures are used, the relevant emission limit value for the period of operation on each fuel type or fuel mixture, shall be a fuel-weighted average which shall be calculated by multiplying the emission limit value for the fuel type specified in Table 5.6 by the thermal input delivered by that fuel type divided by the sum of the thermal inputs delivered by all fuels and then by aggregating each of the fuel-weighted limit values.

5.3.4 Notifications

5.3.4.1 Notwithstanding the requirements of Regulation 45 or Regulation 46 of The Regulations and in relation to the Operation of any LCP, the Operator shall submit a written notification to SEPA in the following circumstances within the time period specified:

a) In the exceptional cases where Article 30(5) may apply, without delay;

b) In the exceptional cases where Article 30(6) may apply, without delay;

c) In cases where Article 4(2) of Commission Implementing Decision 2012/249/EU concerning the determination of start-up and shut-down (SUSD) periods applies, 14 days prior to any changes;

Table 5.1 - Emissions to Air ELVs

Source of Emission	**Emission point number**	A08		A09		A10	
	Emission source	Boiler A (Z-SG-01 A)		Boiler B (Z-SG-01 B)		Boiler C (Z-SG-01 C)	
	Large Combustion Plant	Yes (67 MWth input)		Yes (67 MWth input)		Yes (67 MWth input)	
	Stack height/ diameter (m)	25/1.6		25/1.6		25/1.6	
	Location on Site Plan	A08		A09		A10	
	NGR	NT 18567 90050		NT 18563 90062		NT 18562 90072	
Monitoring Details	**Type of Monitoring**	SS		SS		SS	
	Sampling Location	Boiler Exhaust		Boiler Exhaust		Boiler Exhaust	
Fuel Type		**Fuel gas**	**Fuel gas/ fuel oil**	**Fuel gas**	**Fuel gas/ fuel oil**	**Fuel gas**	**Fuel gas/ fuel oil**
Limits For Parameters From Emission Source	**Oxides of Nitrogen (as NO_2)**	300 mg/m^3	See Condition 5.3.4 & Table 5.6	300 mg/m^3	See Condition 5.3.4 & Table 5.6	300 mg/m^3	See Condition 5.3.4 & Table 5.6
	Sulphur Dioxide	35 mg/m^3	See Condition 5.3.4 & Table 5.6	35 mg/m^3	See Condition 5.3.4 & Table 5.6	35 mg/m^3	See Condition 5.3.4 & Table 5.6
	Dust	5 mg/m^3	See Condition 5.3.4 & Table 5.6	5 mg/m^3	See Condition 5.3.4 & Table 5.6	5 mg/m^3	See Condition 5.3.4 & Table 5.6
	Carbon Monoxide	200 mg/m^3		200 mg/m^3		200 mg/m^3	
	Smoke	Ringelmann Shade 2 > 30mins at Start Up then Ringelmann Shade 1					

Table 5.2 – Emissions to Air Monitoring Requirements

Emission Point	Parameter	Monitoring frequency	Monitoring standard or method	Operational Mode	Averaging Period for ELV Compliance and / or Reporting	Data handling requirements
A08, A09, A10	Oxides of Nitrogen (as NO_2)	Periodic 6 monthly measurement	BS EN 14792	Operational	Average over sample period.	As specified in Condition 5.2.3
	SO_2	Periodic 6 monthly measurement	BS EN 14791	Operational	Average over sample period	As specified in Condition 5.2.3
	Carbon monoxide	Periodic 6 monthly measurement	BS EN 15058	Operational	Average over sample period	As specified in Condition 5.2.3
	Particulate	Periodic 6 monthly measurement	BS EN 13284-1	Operational	Average over sample period	As specified in Condition 5.2.3
	Smoke	As indicated by DCS monitoring	BS 2742:1969	Start-up and Shut-down and normal operation		
	Oxygen	Continuous online measurement	As agreed in writing with SEPA	Whenever operational		
		Periodic 6 monthly measurement	BS EN 14789 or alternative method as agreed in writing with SEPA.	Not specified	Average over sample period	As specified in Condition 5.2.3
	Water vapour (if not measured on a dry basis)	Periodic 6 monthly measurement	BS EN 14790 or alternative method as agreed in writing with SEPA.	Not specified	Average over sample period	As specified in Condition 5.2.3
	Temperature	Continuous online measurement	As agreed in writing with SEPA	Whenever operational		
		Periodic 6 monthly measurement	BS EN 16911-1	Not specified		As specified in Condition 5.2.3
	Pressure	Periodic 6 monthly measurement	BS EN 16911-1 or as agreed in writing with SEPA	Not specified		As specified in Condition 5.2.3
	Velocity and volumetric flow rate	Periodic 6 monthly measurement	BS EN 16911-2	Not specified		As specified in Condition 5.2.3
	Operating rate	Continuous online measurement	As agreed in writing with SEPA	Whenever operational		

Emission Point	Parameter	Monitoring frequency	Monitoring standard or method	Operational Mode	Averaging Period for ELV Compliance and / or Reporting	Data handling requirements
	Type of fuel being burned	Continuous online measurement	As agreed in writing with SEPA	Whenever operational		
	Boiler receiving gas from the Feed Treatment Unit	Online Continuous Measurement	As agreed in writing with SEPA	As required whenever operational		
	Thermal Input (MW)	Online Continuous Measurement	As agreed in writing with SEPA	Whenever operational averaged monthly		

Table 5.3 - Reference Conditions

Emission Point Number	Reference Condition
A08, A09 & A10	Temperature of 273K, pressure of 101.3 kPa, dry at an oxygen content of 3 % v/v gaseous or liquid fuels

Table 5.4 - Mass Emissions to Air

Parameter	Combined Emissions (number)	Method (Summary)	Mass Emissions result to be recorded as
NOx	A08, A09 & A10	As Agreed in writing with SEPA	Tonnes per month
SO_2	A08, A09 & A10	As Agreed in writing with SEPA	Tonnes per month
Dust	A08, A09 & A10	As Agreed in writing with SEPA	Tonnes per annum
Carbon Monoxide	A08, A09 & A10	As Agreed in writing with SEPA	Tonnes per annum
Carbon Dioxide	A08, A09 & A10	As Agreed in writing with SEPA	Tonnes per month

Table 5.5 - Start up and shutdown thresholds

Plant Reference	Minimum start up load (MSUL)	Minimum shut-down load (MSDL)
Schedule 1 paragraph 1.1.4.3 (Emission Point A08 (steam raising boiler (Z-SG-01 A)	20 Tonnes (Te)/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)	20 Te/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)
Schedule 1 paragraph 1.1.4.3 (Emission Point A09 (steam raising boiler (Z-SG-01 B)	20 Te/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)	20 Te/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)
Schedule 1 paragraph 1.1.4.3 (Emission Point A10(steam raising boiler (Z-SG-01 C)	20 Te/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)	20 Te/ Hour steam production and 1.2 Te/ Hour fuel gas (25% MCR)

Table 5.6 - Emissions to Air – ELVs for individual fuels for calculation of Multi-Fuel Firing ELVs

Source of Emission	**Emission point number**		A08		A09		A10	
	Emission source		Boiler A (Z-SG-01 A)		Boiler B (Z-SG-01 B)		Boiler C (Z-SG-01 C)	
	Stack height/ diameter (m)		25/1.6		25/1.6		25/1.6	
	Location on Site Plan		A08		A09		A10	
	NGR		NT 18567 90050		NT 18563 90062		NT 18562 90072	
Monitoring Details	**Type of Monitoring**		SS		SS		SS	
	Sampling Location		Boiler Exhaust		Boiler Exhaust		Boiler Exhaust	
Time period associated with ELV			until 31/12/ 2015	from 1/01/2 016	until 31/12/ 2015	from 1/01/2 016	until 31/12/ 2015	from 1/01/2 016
Limits for Parameters from Emission Source	**Oxides of Nitrogen mg/m^3**	**Liquid Fuel**	450	450	450	450	450	450
		Gaseous Fuel	300	300	300	300	300	300
	Oxides of Sulphur mg/m^3	**Liquid Fuel**	1700	350	1700	350	1700	350
		Gaseous Fuel	35	35	35	35	35	35
	Dust mg/m^3	**Liquid Fuel**	50	30	50	30	50	30
		Gaseous Fuel	5	5	5	5	5	5

Notes

1. Multi-fuel firing ELVs calculated pro-rata based on ratio of fuel from fuel gas: fuel oil: and the ELVs in Part 1 of Annex V of IED.

   a. For NOx (fuel gas) ELV is 300 mg/m^3 because these boilers were permitted before 2002, for fuel oil it is 450 mg/m^3
   b. For SO2 (fuel gas) ELV is 35 mg/m^3, for fuel oil it is 350 mg/m^3 for a plant between 50-100 MW
   c. For dust (fuel gas) ELV is 5 mg/m^3, for (fuel oil) ELV is 30 mg/m^3 for a plant between 50-100 MW
   d. No ELV required for CO.

16. The Explanatory Notes at the back of the Permit are deleted and replaced by the following new Explanatory Notes overleaf:

EXPLANATORY NOTES
(These Explanatory Notes do not form part of the Permit)

1. BAT

It should be noted that Regulation 22 of the Regulations specifies that it is a condition of a permit that the operator must use the best available techniques (BAT) for preventing or, where that is not practicable, reducing emissions from the installation. This is referred to as the 'general' BAT condition.

This does not apply to the extent that any other condition of the permit, or a standard rule which has effect as a standard rules condition, has the same effect. Examples of aspects of the operation that have not been regulated by specific conditions are management and supervision systems, training and qualification and maintenance in general.

BAT is defined in Regulation 4 of the Regulations as follows:

"Best available techniques" means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole.

"available techniques" means those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the UK, as long as they are reasonably accessible to the operator.

"best" means in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole.

"techniques" includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

"BAT conclusions" means a document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.

"emerging technique" means a novel technique for an industrial activity that, if commercially developed, could, when compared to existing best available techniques provide a higher level of protection of the environment, or at least the same level of protection of the environment and higher cost savings.

"emission levels associated with best available techniques" means the range of emission levels obtained under normal operating conditions using a best available technique, or combination of best available techniques, as described in BAT conclusions, expressed as an average over a given period of time, under specified reference conditions.

Schedule 3 of the Regulations specifies the matters to be taken into account in determining BAT. In considering BAT, SEPA would expect the operator to have

regard to all relevant PPC sector or other technical guidance, including BAT Reference Documents published by the European Commission and UK technical guidance published by the Environment Agency.

2. GENERAL STATUTORY REQUIREMENTS

The permit does not detract from any other statutory requirements applicable to you in respect of the Permitted Installation, such as any need to obtain planning permission or building regulations approval or any responsibilities under legislation for health, safety and welfare in the workplace.

3. APPEALS

If you are aggrieved by any of the conditions of the permit, you should initially contact the local SEPA office at the address or telephone number below. Further information on your right of appeal and the appeals procedure is contained regulation 58 and Schedule 8 of the Regulations.

4. SUBSISTENCE CHARGES

An annual subsistence charge will be payable in respect of the permit in terms of the Pollution Prevention and Control (Scotland) Charging Scheme or any relevant charging scheme made under Section 41 of the Environment Act 1995, copies of which are available from SEPA.

5. ADDRESS AND TELEPHONE NUMBERS

The contact address and telephone number for all information to be reported in terms of the permit, is as follows:

Type of communication	**Address**	**Telephone/ Fax**	**Email**
Initial notification of Pollution incident	N/A	0800 80 70 60 24 hour pollution hotline	N/A
Application for New Permit/ Variation/ Transfer or Surrender	SEPA ASB, Angus Smith Building, 6 Parklands Avenue Eurocentral, Holytown, North Lanarkshire ML1 4WQ	Tel: 01698 839000 Fax: 01698 738155	RegistryAngusSmith@sepa.org.uk
For all other communications including change notifications, data returns, incident reports and general enquiries	Scottish Environment Protection Agency local East region office as confirmed by Site Officer, either:		
	SEPA Edinburgh Office, Clearwater House, Heriot Watt Research Park, Avenue North, Riccarton, Edinburgh. EH14 4AP	Tel: 0131 449 7296 Fax: 0131-449-7277	As agreed in writing with SEPA

	SEPA Strathearn House Broxden Business Park Lamberkine Drive Perth PH1 1RX	Or Perth Tel: 01738 627989 Fax: 01738 630997	As agreed in writing with SEPA

6. REVIEW OF CONDITIONS

The conditions of the permit will be periodically reviewed by SEPA.

7. PROPOSED CHANGE IN OPERATION OF INSTALLATION

It is a requirement of Regulation 45 of the Regulations that if you propose to make a change in the operation of the installation, you must notify SEPA at least 14 days before making the change. The requirement under Regulation 45 does not apply if you have already made an application to SEPA for the variation of the conditions of the permit containing a description of the proposed change.

N.B. the requirements of Regulation 45 are in addition to any obligations you may have under the permit itself to only operate the permitted installation in the manner set out in the permit and to notify SEPA of proposed changes to the permitted installation.

Regulation 46 and Schedule 7 of the Regulations provide details on applications for variation of the permit in respect of proposed changes and substantial changes in operation.

"Change in operation" and "substantial change in operation" are defined in Regulation 2 of the Regulations.

8. ENFORCEMENT & OFFENCES

If SEPA is of the opinion that you have contravened, or are contravening or are likely to contravene a condition of the permit, or an incident or accident significantly affecting the environment has occurred as a result of the operation of the installation it may serve an enforcement notice. Further details on enforcement notices are provided in Regulation 55 of the Regulations.

If SEPA is of the opinion that the operation of an installation poses an immediate danger to human health, threatens to create an immediate significant adverse effect upon the environment or involves a risk of serious pollution it must, in certain circumstances, serve a suspension notice on you. Further details on suspension notices are provided in Regulation 56 of the Regulations.

It is an offence to operate an installation covered by the Regulations without a Permit or in breach of the conditions of the permit. It is an offence to fail to comply with the requirements of an enforcement or suspension notice. It is an offence to intentionally make a false entry in any record required to be kept under a condition of a permit. Further details on offences and on penalties liable to be imposed upon conviction of an offence are provided in Regulation 67 of the Regulations.

Directors, managers and other individuals within a company may be held personally liable for offences under the Regulations.

All personnel who are responsible for fulfilling any condition of the permit should be made aware of these facts.

9. BREACH OF A PERMIT CONDITION

Regulation 52 of the Regulations specifies that the operator of an installation must immediately give notice to SEPA of any breach of a condition of the permit. It is an offence to fail, without reasonable excuse to comply with Regulation 52.

Any statement made by an operator to SEPA for the purposes of complying with regulation 52 may only be used in a prosecution for an offence where in giving evidence the operator makes a statement inconsistent with the initial notification.

All personnel who are responsible for fulfilling any condition of the permit should be made aware of these facts.

10. RECORDED SYSTEMS, PROCEDURES OR INFORMATION RECORDING/ RETURN REQUIREMENTS

Where a condition requires any system, procedure or information record/return, the operator may demonstrate compliance by making use of any relevant existing written system used for any other purpose and which meets the requirements of the relevant condition.

11. SYSTEMATIC ASSESSMENT (AND REVIEW)

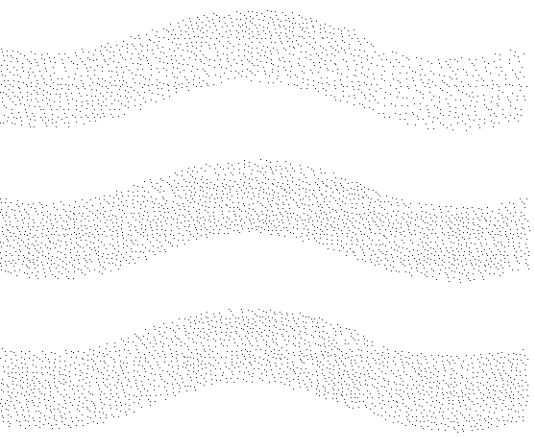
Where a condition of the permit requires a "systematic assessment (and review)" the assessment should be undertaken in a methodical and arranged manner. If you require guidance on the scope or extent of any assessment (and review) required to be undertaken, you should contact your local SEPA office at the address or telephone number given above.

12. SEPA DOCUMENT IED-T-01(TT) – Extended Two-Tier Consent Table

This document can be downloaded from the SEPA website www.sepa.org.uk. Should you have any difficulty accessing a copy please contact SEPA for assistance.

13. COMMERCIAL CONFIDENTIALITY

Regulation 64 of the Regulations requires that SEPA maintain a register ("a Public Register"), whilst Schedule 9 of the Regulations sets out what the Public Register shall contain. Regulation 66(2) provides you with an opportunity to apply for exclusion from the Public Register for certain confidential information. Where you are required to supply SEPA with information whether via a condition in this permit, or otherwise, and that information falls under Schedule 9, if you wish it to be excluded from the public register as confidential information, then such a submission must include an application made under Regulation 66(2).



Scottish Environment Protection Agency