

# Standard rules SR2018 No 7

## The Environmental Permitting (England & Wales) Regulations 2016

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### SR2018 No 7 standard rules for new, low risk, stationary Medium Combustion Plant 1 < 20MW (in operation after 20/12/2018)

#### Introductory note

This introductory note does not form a part of these standard rules.

When referred to in an environmental permit these rules will allow the operator to operate one or more new medium combustion plant (MCP) between 1 and < 20MW which were put in operation after 20/12/2018 at a specified location, provided that the permitted activities meet the following criteria:

Category	Relevant criteria
New MCP	MCP put into operation after 20 December 2018
Low risk MCPs	<p>Each MCP has a rated thermal input of less than 20 Mega Watts.</p> <p>Do not generate electricity as Specified Generator unless as an exempt 'back-up generator'.</p> <p>Are single fuel fired and do not burn solid fuel or liquid fuels other than gas oil.</p> <p>Are not subject to the provisions of Chapter II of the Industrial Emissions Directive.</p>
Stationary MCP	Stationary MCPs are installed at a specified location, they are not mobile MCPs.

These rules will permit the:

Category	Relevant criteria (or N/A)

Activity and scale	No more than an aggregated total rated thermal input of 50 MW MCPs, new or existing, (1- < 20 MW units) at the specified location
Key restrictions	These rules set emission limit values on releases to air only
Emissions	The principal releases are SO <sub>2</sub> , NO <sub>x</sub> and CO.
Hours of operation	Limits for ELV exempt MCPs and where Combined Heat & Power is not practicable

**End of introductory note**

Record of changes

Version	Date	Change
1.0	April 2018	Published for SRP consultation May 2018
2.0		

# Rules

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with rule 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in these standard rules shall have convenient access to a copy of the permit or rules.

## 2 Operations

### 2.1 Permitted activities

2.1.1 The only activities authorised by the permit are the activities specified in table 2.1 below.

<b>Table 2.1 activities</b>		
<b>Activity reference</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
New Medium Combustion Plant	Combustion plant burning the following fuels, <ul style="list-style-type: none"><li>- Gas oil</li><li>- Natural gas</li><li>- Biogas</li><li>- Gaseous fuels other than natural gas</li></ul> Limited operating hours for < 500 hour a year MCPs Limited operating hours where the aggregated total rated thermal input is between 20 and 50 MW As detailed in Schedule 1 of this Permit	1 – < 20 MW MCP  Less than 50 MW aggregated at the specified location  Single fuel combustion  Less than 500 hours a year  Less than 1500 hours a year  As detailed in Schedule 1 of this Permit

### 2.2 The site

2.2.1 The activities shall only be carried out at the address in this permit where the plant is located.

## 2.3 Operating techniques

2.3.1 The activities shall be operated using the techniques and in the manner described in Table 2.3 below.

<b>Table 2.3 Operating techniques</b>	
(a)	The plant must be operated in accordance with the manufacturers instruction's and records must be made and retained to demonstrate this.
(b)	The operator must keep periods of start-up and shut down of the MCP as short as possible
(c)	There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993
(d)	A back-up generator may only be operated for the sole purpose of maintaining power supply to a site during an on-site emergency and it may not participate in any balancing services
(e)	A back-up generator may be operated for the sole purpose of testing no more than 50 hours a year.

## 3 Emissions and monitoring

### 3.1 Emissions to air,

3.1.1 There shall be no point source emissions to air except from the sources and emission points listed in tables 3.1, 3.2 and 3.3.

3.1.2 The limits given in tables 3.1, 3.2 and 3.3 shall not be exceeded

<b>Table 3.1 Point source emissions to air – emission limit values and monitoring requirements for MCPs other than engines and gas turbines</b>						
Pollutant	Fuel Gas oil mg/Nm3	Fuel Natural Gas mg/Nm3	Fuel Biogas mg/Nm3	Gaseous fuels other than natural gas mg/Nm3	Monitoring frequency	Monitoring standard or method
Sulphur Dioxide	N/A	N/A	100	35	Once every 3 years	All limits are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O2 content of 3%.
Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	200	100	200	200		
Carbon monoxide	No limit	No limit	No limit	No limit		

<b>Table 3.2 Point source emissions to air – emission limit values and monitoring requirements for MCPs which are engines and gas turbines</b>							
Pollutant	Type of MCP	Fuel	Fuel	Fuel	Gaseous fuels	Monitoring frequency	Monitoring standard or method

		Gas oil mg/Nm3	Natural Gas mg/Nm3	Biogas mg/Nm3	other than natural gas mg/Nm3		
Sulphur Dioxide	Engine & gas turbine	N/A	N/A	40	15	Once every 3 years	All limits are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O2 content of 15%.
Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Engine	190	95	190	190		
	Gas turbine	75	50	75	75		
Carbon monoxide	Engine & gas turbine	No limit	No limit	No limit	No limit		

<b>Table 3.3 Point source emissions to air – monitoring requirements for MCPs operating less than 500 hours a year on a 3 year rolling average</b>						
Pollutant	Fuel Gas oil mg/Nm3	Fuel Natural Gas mg/Nm3	Fuel Biogas mg/Nm3	Gaseous fuels other than natural gas mg/Nm3	Monitoring frequency	Monitoring standard or method
Sulphur Dioxide	N/A	N/A	No limit	No limit	Once every 1,500 hours of operation	Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O2 content of 15% for engines and gas turbines and 3% all other MCPs
Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	No limit	No limit	No limit	No limit		
Carbon monoxide	No limit	No limit	No limit	No limit		

3.1.3 Limited Operating hours MCPs detailed in Schedule 1, which are exempt from compliance with Emission Limit Values shall:

- (a) not exceed 500 hours operation in a year as a rolling average over a 3 year period.
- (b) The year refers to a 12 month period of operation not a calendar year
- (c) Once 3 years have been established, the average is calculated on a rolling annual basis thereafter.
- (d) No more than 750 hours may be operated by a Limited Operating hours MCP in any single year

## **3.2 Monitoring**

- 3.2.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in table 3.1
- 3.2.2 The first monitoring measurements shall be carried out within four months of the issue date of this permit or the date of when the MCP is first put into operation, whichever is later.
- 3.2.3 The stack emissions monitoring programme shall be carried out according to EA TGN M5, unless otherwise agreed in writing.
- 3.2.4 Monitoring and compliance shall not include periods of start up or shut down.
- 3.2.5 The operator shall maintain records of all monitoring required by these standard rules including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by these standard rules shall:
  - (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made,
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP.
- 4.1.4 The operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time

### **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by these standard rules to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within four months of the date of permit issue or the date of the start of operation, whichever is later, and then every three years, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the emission limits and monitoring set out in table 3.1, 3.2 or 3.3.

### **4.3 Notifications**

- 4.3.1 In the event:
  - (a) of a breach of any permit rule or Emission Limit Value the operator must immediately—

- (i) inform the Environment Agency, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (b) of a breach of a permit rule or Emission Limit Value which causes a significant degradation of local air quality, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit rules has been restored.

4.3.2 If the event that any Emission Limit Value exempt MCPs identified in Schedule 1 exceeds 500 hours operation in a year. This notification shall include a summary of compliance with the 3 year rolling average rule 3.1.2.

4.3.3 Any information provided under standard rule 4.3.1 and 4.3.2 shall be confirmed in writing within 24 hours.

4.3.4 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.5 Without undue delay the Environment Agency shall be notified of planned change to the permitted MCPs which would affect the applicable Emission Limit Value.

4.3.6 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (c) any change in the operator's name or address; and
- (d) any steps taken with a view to the dissolution of the operator.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

## 4.4 Interpretation

4.4.1 In these standard rules the expressions listed below shall have the meaning given in that table.

4.4.2 In these standard rules references to reports and notifications mean written reports and notifications, except where reference is made to notification being made immediately, in which case it may be provided by telephone.

Term	Means
Accident	an accident that may result in pollution



AQMA	Air quality management area – is that defined in the <a href="#">Environment Act 1995, Part VI, 83.(1)</a> as amended.
Authorised officer	any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.
Back-up generator	a generator operated for the sole purpose of maintaining power supply at a site during an emergency, tested no more 50 hours a year. A back-up generator may not participate in Demand Side Response or Triad operation.
Balancing service	any service procured by the transmission system operator in order to balance supply and demand, and to ensure security and quality of electricity supply, across the national transmission system for Great Britain.
Energy Efficiency Directive	Is DIRECTIVE 2012/27/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2012 on energy efficiency
Gas oil	(a) any petroleum-derived liquid fuel falling within CN codes 2710 19 25, 2710 19 29, 2710 19 47, 2710 19 48, 2710 20 17 or 2710 20 19; or (b) any petroleum-derived liquid fuel of which less than 65 % by volume (including losses) distils at 250 °C and of which at least 85 % by volume (including losses) distils at 350 °C by the ASTM D86 method
EP Regulations	The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.
First put into operation	Is when fuel is first combusted in the MCP
MCPD	Medium Combustion Plant Directive – means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants
MCP	<i>‘medium combustion plant’</i> means a combustion plant with a rated thermal input equal or greater than 1 megawatt but less than 50 megawatts
Mobile MCP	Mobile MCP means one that is designed to move or be moved whether on roads or on land.
New MCP	<i>‘new medium combustion plant’</i> means one that is not existing i.e. which was put into operation after 20 December 2018
Operating hours	the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods
Pollution	emissions as a result of human activity which may – (b) be harmful to human health or the quality of the environment (c) cause offence to a human sense (d) result in damage to material property, or (e) impair or interfere with amenities and other legitimate uses of the environment.
Quarter	a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

Specified Generator	a Generator which is used to generate electricity and is not an excluded Generator – see Schedule 25B(2) of SI 2018 No. 110
Year	calendar year ending 31 December.

**End of standard rules**