

**P-IND-IA1V**

**The Environmental Authorisations (Scotland) Regulations 2018 (EASR)**

**Industrial Activities Permit Variation Form:**

**Other Emissions Activities and Organic Solvent Emissions Activities**

Version 1.0

August 2025

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If you would like this document in an accessible format, such as large print, audio recording or braille, please contact SEPA by emailing equalities@sepa.org.uk.

## How to use this industrial activities variation form

Use this form to apply to vary an existing permit that authorises EASR industrial activities under the schedules listed below. Variation includes the addition of a new activity.

* Schedule 26: Other emissions activities
* Schedule 28: Petrol vapour recovery activities (terminals only)
* Schedule 23: Organic solvent emissions activities
* Schedule 27: Operating a medium combustion plant (when combined with other emissions or organic solvent activities)

**Do not** use this form for:

* Reducing the boundary of an authorised place – you will need to apply for a surrender in part.
* Reducing the number of regulated activities authorised by the permit – you will need to apply for a surrender in part.
* Changing the authorised person of the existing permit – you will need to apply for a transfer (in whole or in part).

#### Additional information required

If you are applying for an activity listed in Section 4 or SEPA advised you to provide a site or baseline report as part of your application, please complete Section 4.

If your application includes any of the activities listed below, please also complete the relevant appendices of this form:

* Appendix 1: Organic solvent emissions activities (activities defined under schedule 23 of EASR)
* Appendix 2: Medium combustion plant (activities defined under schedule 27 of EASR)
* Appendix 3: Energy efficiency (activities defined under schedule 25 of EASR)

## Before you apply

* Check your permit to identify the type of authorised activities (e.g. water, waste, industrial activities).
* Use the correct variation form for the type of activity you want to vary. For example, use the waste variation form to vary a waste permit activity, the water variation form to vary a water permit activity, or the appropriate variation form for other activities.
* Read the guidance for the activity you wish to vary and/or to add to your existing permit on the relevant activity specific page on our [website](https://www.sepa.org.uk/easr).
* Where you see the term ‘document reference’, enter the document reference(s) for the information you have provided. These must be submitted along with the completed form.
* For applications made with insufficient or inadequate information; we will return these to the applicant with an explanation of what additional information is required and may retain part of the application fee in accordance with our published charging scheme.

## Multiple activities under a single permit

We may authorise multiple activities under a single permit, but only if the activities are connected. Activities may be considered connected if they are:

* located at the same geographical location,
* part of the same project, or
* operationally linked.

If the activities are connected, you may apply for a variation of an existing permit to add new activities under one permit.

If the activities are not connected, you must submit a separate application for each activity.

## How to apply

**Digital application service:**

The quickest and easiest way to [apply is via our digital application service](https://www.sepa.org.uk/easr) on our website.

You will need to upload:

1. Completed variation form(s)
2. Completed activity form(s) if required
3. Any required supporting information

**Email/Post application:**

If you cannot apply using our digital application service, you can complete and submit an application via email or by post.

Your application must include the following:

1. A completed APP-GEN1 form
2. Completed variation form(s)
3. Completed activity form(s) if required
4. Any required supporting information

Email and postal addresses for submitting your application are included in the APP-GEN1 form.

You can download [APP-GEN1, activity forms and variation forms](https://www.sepa.org.uk/easr) from our website.

## Section 1 - Permit details

### 1.1 Permit reference

Please provide the reference of the permit you wish to vary.

| **Permit reference** (e.g. EAS/P/1234, PPC/B/1234567) |
| --- |
|  |

### 1.2 Authorised place details

Please provide the following information about the authorised place.

**Table 1: Authorised place details**

| **Question** | **Answer** |
| --- | --- |
| **Authorised place name** |  |
| **Authorised place address** |  |
| **Authorised place postcode** |  |
| **National Grid Reference (NGR)**(At least 2 letters followed by 8 digits, e.g. AB 1234 6789. You can use our [SEPA NGR Tool](https://map.sepa.org.uk/ngrtool/) to find your NGR.) |  |

### 1.3 Nuclear site licence

Is the authorised place on a location for which a nuclear site licence is required under Section 1 of the Nuclear Installations Act 1965?

Yes [ ]

No [ ]

### 1.4 Site of Special Scientific Interest (SSSI), Special Area of Conservation (SAC), Special Protection Area (SPA) and RAMSAR sites

Use the [NatureScot website map](https://sitelink.nature.scot/map) to check if your activity is located within or could impact on a SSSI, SAC, SPA, or a RAMSAR site based on the screening distances in the [Screening distance table](http://www.sepa.org.uk/easr).

If your activity falls within the screening distance or could affect any of these sites, please provide details in the table below.

**Table 2: Designated sites details**

|  |  |  |
| --- | --- | --- |
| **Site name** | **Designation**(e.g. SSSI, SAC, SPA) | **Distance from the proposed authorised place** (km) |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Section 2 - About your proposed variation

### 2.1 Variation type

There are three types of variations: administrative, standard and substantial.

Please refer to our [Charging guidance](https://www.sepa.org.uk/regulations/authorisations-and-permits/charging-schemes/charging-schemes-and-summary-charging-booklets/) for examples and guidance on identifying the correct variation type.

To understand what qualifies as a substantial variation, please read our guidance [Identifying Substantial Change](https://www.sepa.org.uk/easr).

If you need assistance in determining the correct variation type, please contact ppcpermitting@sepa.org.uk.

Please select the relevant box below to confirm the type of variation you are applying for.

**Administrative variation**  [ ]  (complete Sections 2 and 5)

**Standard variation**  [ ]

(complete Sections 2, 3, 4 (if required), 5 and any relevant appendices)

**Substantial variation**  [ ]

(complete Sections 2, 3, 4 (if required), 5 and any relevant appendices)

### 2.2 Non-technical summary

Please provide a non-technical summary of your application, including:

* A brief overview of the proposed variation.
* The type of variation (administrative, standard or substantial) and justify the reasons for this.
* If applicable, a description of any new or modified processes that will take place following the proposed variation.
* If applicable, the measures you will implement to control the main environmental emissions from the authorised place after the variation takes effect.

This summary may be published on our website as part of the public consultation process.

Ensure it is written in simple and plain language so that all members of the public can clearly understand the details of your application.

| **Document reference** |
| --- |
|  |

### 2.3 Proposed variation details

Please provide details about the changes you are requesting to the condition(s) of your permit (if applicable).

| **Document reference** |
| --- |
|  |

### 2.4 Location plan

If your proposed variation will increase the boundary of the authorised place, please provide an updated location plan.

The location plan must:

1. Clearly outline and identify the new boundary of the proposed authorised place.
2. Limit the new boundary of the authorised place strictly to the extent of the activities.
3. Be based on an Ordnance Survey (OS) map.
4. Be clear and easy to read on an A4 page, avoiding unnecessary details.
5. Include a defined scale, the date it was created, a north direction indicator, and context such as roads and buildings.

| **Document reference** |
| --- |
|  |

### 2.5 Adding a new activity

Do you wish to add a new water, waste or schedule 20 industrial activity to your existing permit?

Yes [ ]

No [ ]

If ‘Yes’, you will need to complete and submit an activity form for each activity you wish to add.

Activity forms are available on the relevant activity specific page on our [website](https://www.sepa.org.uk/easr).

Please provide the relevant document reference(s) here.

| **Document reference** |
| --- |
|  |

If your new activity will not impact on your existing industrial activity, you do not need to complete the rest of this form.

## Section 3 - Technical description of your variation

### 3.1 Details of your proposed variation

If your proposed variation will result in a change to any of the following, please select the relevant box, complete the relevant section and provide any evidence requested with your application.

* **Change to your process** [ ]

Including adding a new industrial activity, change in capacity and/or process flow

(complete Section 3.2)

* **Change to your emissions to air or abatement**  [ ]

Including likely air emissions, how they are controlled or abated,

stack height and monitoring

(complete Section 3.3).

* **Change to your resources and waste** [ ]

Including resources required, waste storage and quantities, and how

they are managed

(complete Section 3.4).

* **Change to your management and accident prevention** [ ]

Including management plans, maintenance, procedures and staff training

(complete Section 3.5).

### 3.2 Changes to your process

#### 3.2.1 Changes to your activities or capacity

Please complete the table below if this variation will add any new industrial activities or increase the capacity of any existing industrial activity currently carried out at your authorised place.

**Activity description**

Use the [activity webpages](https://www.sepa.org.uk/easr) to identify the activities which will change as a result of this variation application and add any industrial activities that you wish to apply for. If you are looking to add water, waste or schedule 20 emission activities, please use the relevant activity forms.

**Activity capacity or throughput**

Refer to [SEPA capacity/threshold guidance](http://www.sepa.org.uk/easr) and specify the activity capacity or throughput for each activity in the table below. For example, for combustion activities provide the ‘aggregated net thermal input’, for waste disposal activities provide the ‘tonnes per day’**.**

**Changes**

Indicate whether the activity listed is a proposed new activity to be added by this variation, or a change to an existing activity.

**Table 3: Industrial activities details**

|  |  |  |
| --- | --- | --- |
| **Activity description**  | **Activity capacity or throughput** | **Changes** |
| Example 1: Manufacture of glass between 5,000 tonnes per year and 20 tonnes per day | 5,500 tonnes per year | Changed capacity |
| Example 2: Medium combustion plant | 19.5 MW thermal input | New activity |
|  |  |  |
|  |  |  |
|  |  |  |

#### 3.2.2 Infrastructure plan

Please provide an infrastructure plan that clearly shows the layout of the proposed authorised place. The plan should include key features such as:

* Plant and equipment (including abatement)
* Storage areas (e.g. silos, bunded areas, tanks)
* Permeable and impermeable areas
* Buildings and enclosed areas
* Site drainage
* Emission and monitoring points

If the proposed authorised place is large or complex, it may be difficult to include all the information on a single plan. In this case, please provide separate plans for different aspects of the proposed authorised place, such as underground infrastructure, air emission points, water emission points, process flow, etc.

| **Document reference** |
| --- |
|  |

#### 3.2.3 Process description

Please provide a detailed technical description of how you intend to operate the proposed activities, which should include:

1. Details of all processes that will be carried out and how they are connected.
2. An updated process flow chart.

| **Document reference** |
| --- |
|  |

### 3.3 Emissions to air

#### 3.3.1 Air emissions, control and monitoring

Please provide the following details about the cumulative air emissions for the authorised place, including the proposed variation:

1. **Likely air emissions**: list the likely air emissions from the activity, including sources and quantities. Include both fugitive and point source emissions of odour, dust and heat and any other relevant substances.
2. **Control, prevention and minimisation**: describe the measures, equipment, systems, or treatments (e.g. bag filters, scrubbers, carbon filters, etc.) that will be used to control, prevent, or minimise the likely air emissions from the proposed activity. Explain why these are the best options for the proposed activity.
3. **Monitoring arrangements**: provide details of the proposed methods for monitoring air emissions. Include environmental monitoring plans, frequency, measurement methodology, and evaluation procedures.

| **Document reference** |
| --- |
|  |

#### 3.3.2 Impact assessment

Please provide an assessment of the potential significant effects of any air emissions on human health and the environment. This should demonstrate that emissions to air will not harm the environment, human health, or designated conservation sites (e.g. SSSI, SAC, SPA) and that they comply with relevant emission limits outlined in the relevant process guidance notes.

If there is a risk of potential harm, especially near sensitive human receptors, a risk assessment and/or modelling may be required, in accordance with our guidance on [air emission risk assessments](https://www.sepa.org.uk/easr).

| **Document reference** |
| --- |
|  |

#### 3.3.3 Emission points to air

If your emissions to air are only from a Medium Combustion Plant, skip this Section 3.3.3 and complete the rest of the form, including Appendix 2: Medium combustion plant.

If you are using a stack to release emissions, please provide evidence that the following minimum requirements have been met:

1. For a stack located on a building, the stack height should be greater than or equal to 3 metres above the building’s roof ridge height; or
2. For a stack located separately to any building, the stack height should be greater than or equal to 3 metres above the ground; and
3. All stacks should be at least the same height of any building located within a distance of five times the uncorrected stack height.
4. The target exit velocity should be at least 15 m/sec under normal operating conditions.

| **Document reference** |
| --- |
|  |

### 3.4 Resources and waste

Please provide the following details about resources and waste for the activity:

1. **Resources required**: List the resources required by the activity, including raw and auxiliary materials, fuel, water, energy, and other substances, along with any waste likely to be produced by the activity.
2. **Storage measures**: Explain how resources and waste will be stored safely and in a manner that minimises dust, odour and vermin (where applicable). Include details such as quantities, tank sizes, and bund capacities.
3. **Sustainability and waste management**: Describe how resources will be used sustainably and how waste will be managed in line the waste hierarchy.

| **Document reference** |
| --- |
|  |

### 3.5 Management and accident prevention

#### 3.5.1 Management techniques and systems

Please describe the environmental management system you intend to implement to manage, monitor and control your environmental issues and maintain efficiency. Please indicate whether you intend to certify the management system.

| **Document reference** |
| --- |
|  |

**3.5.2 Odour management plan**

If the proposed activity has the potential to generate offensive odours, please provide an odour management plan (OMP). Please refer to our [Odour Guidance](https://www.sepa.org.uk/easr) for more details on managing and controlling odour emissions. An OMP template is available with our Odour Guidance.

|  **Document reference** |
| --- |
|  |

#### 3.5.3 Maintenance, accident prevention and staff training

Please provide the following details about maintenance, accident prevention and staff training:

1. The proposed maintenance programme for the proposed authorised place.
2. How accidents will be minimised, and the actions that will be taken to reduce the environmental consequences of accidents on the proposed authorised place.
3. The environmental training programme that will be implemented for staff.

| **Document reference** |
| --- |
|  |

## Section 4 - Site and baseline reports

Complete this section if SEPA have advised you that you require a site or baseline report, or you are carrying out any of the following activities:

* Thermal treatment of carbon fuels for charcoal or treatment of fuels
* Loading, storage or treatment of crude oil or stabilised crude petroleum
* Purifying, refining or conversion of mineral oil and gas, coke, coal or other fuels
* Loading, handling and storage of iron ore
* Casting foundry
* Producing, melting or refining iron or steel or alloys
* Melting, refining and casting foundry more than 5 tonnes
* Processes emitting cadmium
* Removing asbestos from railway vehicles
* Manufacturing cellulose fibre reinforced calcium silicate board
* Halogen production
* Release of hydrogen halides
* Use or release of hydrogen cyanide or hydrogen sulphide
* Processes using mutagenic elements or their compounds
* Activity which may result in the release into the air of any acid forming oxide of nitrogen
* Processes that may release ammonia to air
* Distilling or heating tar or bitumen
* Tyre manufacturing using raw materials

If your proposed variation will result in new land being included in the authorised place boundary, or new substances being used at the authorised place, you will need to provide both a revised site and baseline report.

Before completing this section, please review [SEPA’s site and baseline report guidance](https://www.sepa.org.uk/easr).

###

### 4.1 Site report

Please provide a site report describing the condition of the proposed authorised place.

The site report should include:

* A description of the substances that will be used, produced, stored, or released at the proposed authorised place.
* The condition of the proposed authorised place and infrastructure to prevent emissions to soil and groundwater, or the proposed containment standards.
* The current state of the soil and groundwater, considering the historical land use and the substances that will be used on the proposed authorised place.

| **Document reference** |
| --- |
|  |

### 4.2 Baseline report

A baseline report is required if there is a risk of contamination to soil and groundwater from the relevant hazardous substances (RHS) used, produced, stored or released by the proposed authorised activity. The baseline report is a quantified statement of the condition of the soil and groundwater, focusing on the RHS and any other substances that may pose a risk of pollution. For more details refer to [SEPA’s site and baseline report guidance](https://www.sepa.org.uk/easr).

Some of the information in [SEPA’s site and baseline report guidance](https://www.sepa.org.uk/easr) may overlap with other parts of the application. To avoid duplication, refer to the relevant sections in the site report. Ensure that the information meets all requirements of the application. For example, when addressing emissions from storage, include specific details about containment measures.

If you are using RHS at the authorised place, you will be required to carry out periodic monitoring of the soil and groundwater throughout the life of the permit. SEPA will use information from the site and baseline report and the application to determine the monitoring requirements.

Pre-application discussions are recommended.

If required, please provide the baseline report.

| **Document reference** |
| --- |
|  |

### 4.3 Baseline report waiver agreement

#### If you have not provided a baseline report, have SEPA agreed a waiver to the requirement to produce a baseline report?

Yes [ ]

No [ ]

If ‘Yes’, please provide a copy of the waiver agreement.

| **Document reference** |
| --- |
|  |

## Section 5 - Any other information

If you have any additional information to support your application, please provide details in a separate document.

| **Document reference** |
| --- |
|  |

## Appendices for additional information

To help us fully assess your application, additional information is required under EASR for the activities listed below. Please complete the relevant appendix for your activity, if applicable:

* **Appendix 1: Organic solvent emissions activities**

For activities defined under schedule 23 of EASR.

* **Appendix 2: Medium combustion plant**

For activities defined under schedule 27 of EASR.

* **Appendix 3: Energy efficiency**

For activities defined under schedule 25 of EASR.

## Appendix 1: Organic solvent emissions activities

Complete this appendix if you are varying or plan to carry out organic solvent emissions activities, as defined under schedule 23 of EASR.

Information and guidance on [organic solvent emissions activities](https://www.sepa.org.uk/easr) is available on our website.

### Section A1-1 - About your organic solvent emissions activities

#### A1-1.1 Organic solvent emissions activities

Please list all organic solvent emissions activities and calculate the annual organic solvent consumption for each activity.

**Table A1-1: Organic solvent emissions activities details**

|  |  |
| --- | --- |
| **Organic solvent emissions activities**  | **Annual organic solvent consumption (tonnes/year)** |
|  |  |
|  |  |
|  |  |
|  |  |

#### A1-1.2 Directly Associated Activities (DAAs)

Please list any Directly Associated Activities (DAAs) you plan to carry on at the proposed authorised place that:

1. are technically connected to the proposed organic solvent emissions activities, and
2. could have an effect on the organic solvent emissions from the activities into the environment (e.g. change, increase, or decrease the Volatile Organic Carbon (VOC) emissions).

If the DAA involves the use of organic solvents, please calculate the annual organic solvent consumption.

**Table A1-2: DAA details**

|  |  |
| --- | --- |
| **Directly Associated Activities (DAAs)** | **Annual organic solvent consumption (tonnes/year)**(if applicable) |
|  |  |
|  |  |
|  |  |
|  |  |

#### A1-1.3 Total annual organic solvent consumption

Please provide below the total annual organic solvent consumption (in tonnes/year) combining both the organic solvent emissions activities and directly associated activities.

| **Total annual organic solvent consumption** |
| --- |
|  |

### Section A1-2 - Proposed changes

Please provide details of any proposed changes to your organic solvent emissions activities or operations that constitute a variation or substantial change.

To understand what qualifies as a substantial variation, please read our guidance [Identifying a substantial change variation](https://www.sepa.org.uk/easr).

**Table A1-3: Changes to organic solvent emissions activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nature of proposed change** | **Projected change in nominal capacity** | **Projected % change in VOC emissions** | **Date of proposed change** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

### Section A1-3 - Hazard statements

If you use designated hazardous materials, especially volatile organic compounds (VOCs) and halogenated VOCs (listed below), you must either:

* replace them, or
* control, contain, and limit their use.

Where these substances are in use, you must comply with the relevant emission limits.

The hazard statements for VOCs include:

* H340 - May cause genetic defect
* H350 - May cause cancer
* H350i - May cause cancer by inhalation
* H360D - May damage the unborn child
* H360F - May damage fertility

The hazard statements for halogenated VOCs include:

* H341 - Suspected of causing genetic defects
* H351 - Suspected of causing cancer

If you do not use any substances labelled with the above hazard statements, please proceed to Section A1-4 VOC compliance routes.

**A1-3.1 Substances and preparations**

Please provide the details in Table A1-4 for each substance or preparation used, or planned for use, that has the hazard statements listed above:

**Table A1-4: Substances and preparations details**

|  |  |  |
| --- | --- | --- |
| **Substance or preparation name** | **Hazard statement** | **Annual substance consumption (tonnes/year)** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Please provide the Material Safety Data Sheet (MSDS) separately for each substance or preparation listed in the table above and include the corresponding MSDS document reference below.

**Table A1-5: Material Safety Data Sheet (MSDS)**

| **Substance/preparation name** | **MSDS Document reference** |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

**A1-3.2 Substances and preparations substitution assessment**

Please assess whether any substances or preparations listed in Table A1-4 can be replaced with a safer alternative and provide details below. You do not need to assess substances or preparations with hazard statements H341 or H351.

**Table A1-6: Proposed substitutions for substances or preparations details**

|  |  |  |  |
| --- | --- | --- | --- |
| **Substance or preparation name** | **Hazard statement** | **Proposed substitution date**  | **Substitute substance or preparation name**  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Please provide the Material Safety Data Sheet (MSDS) separately for each proposed substitute substance or preparation and include the corresponding MSDS document reference below.

**Table A1-7: Material Safety Data Sheet (MSDS)**

| **Substitute substance/preparation name** | **MSDS Document reference** |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

**A1-3.3 Justification for not replacing substances or preparations**

If you do not plan to implement a substitution program, please provide a detailed explanation of why any substance or preparation listed in Table A1-4 cannot be replaced. Consider factors like human health, environmental impact, suitability, and the costs and benefits of alternatives.

| **Document reference** |
| --- |
|  |

**A1-3.4 VOCs discharge and emission compliance**

Please identify where volatile organic compounds (VOCs) are discharged from the proposed activities and meet the following criteria:

1. Assigned or required to carry hazard statements H340, H350, H350i, H360D, or H360F.
2. The mass emission of these compounds is greater than, or equal to, 10 g/h.

If any VOCs are identified, please also explain how you will ensure that the emissions at the waste gas discharge point meet the 2 mg/m³ emission limit specified in EASR.

| **Document reference** |
| --- |
|  |

**A1-3.5 Halogenated VOCs discharge and emission compliance**

Please identify where halogenated VOCs are discharged from the proposed activities and meet the following criteria:

1. Assigned the hazard statements H341 and/or H351.
2. The mass emission of these compounds is greater than or equal to 100 g/h.

If any halogenated VOCs are identified, please also explain how you will ensure that the emissions at the waste gas discharge point meet the 20 mg/m³ emission limit specified in EASR.

| **Document reference** |
| --- |
|  |

###

### Section A1-4 - VOC compliance

**A1-4.1 VOC compliance route**

For each organic solvent emissions activity, you must demonstrate compliance with EASR by selecting one of three VOC compliance routes and submitting a solvent management plan.

Please note that not all compliance routes are available for each activity. To find out which routes apply to your specific activity, please consult the relevant [Process Guidance notes (PG notes)](https://www.gov.uk/government/collections/local-air-pollution-prevention-and-control-lappc-process-guidance-notes#solvents-sector) for your activity.

Please indicate the VOC compliance route you intend to use by selecting the appropriate box below and then complete the relevant sections.

1. **Meet an Emission Limit Value (ELV) for VOCs in waste gases and** [ ]

**a fugitive ELV.**

(complete Section A1-4.2)

1. **Meet a total Emission Limit Value (ELV) for VOCs.** [ ]

(e.g. solvent emissions per unit product)

(complete Section A1-4.2)

1. **Implement a solvent reduction scheme to reduce VOC emissions.**  [ ]

(complete Section A1-4.3)

**A1-4.2 Demonstrating compliance with emission limits**

Please provide information on how the emission limit values (ELVs) of EASR will be met for:

1. VOCs mentioned above.
2. Halogenated VOCs that are assigned or need to carry the hazard statements H341 and H351, and that will be used at the proposed authorised place.

| **Document reference** |
| --- |
|  |

**A1-4.3 Solvent reduction scheme**

Please provide details of any solvent reduction scheme for the proposed activity.

This should include:

* An overview of the proposed scheme.
* How you plan to achieve compliance with the scheme.
* Relevant timelines for implementation.

| **Document reference** |
| --- |
|  |

## Appendix 2: Medium combustion plant

Complete this appendix if you intend to:

* vary a medium combustion plant (MCP), as defined under schedule 27 of EASR, included in your existing permit; or
* operate a new MCP (such as a boiler, engine, or turbine) with a net rated thermal input between 1 and 50 megawatts (MW), in addition to other emission activities.

The information in this appendix will be used to assess your application and establish appropriate emissions limits for your MCP.

**Excluded activities**

Some activities do not need an MCP authorisation.

EASR lists a number of excluded activities, including but not limited to:

* Combustion plant used to propel a vehicle, ship or aircraft
* Turbines and engines used on offshore platforms
* Some driers
* Thermal oxidisers

For the full list of excluded activities, please check the [activity webpage](http://www.sepa.org.uk/easr).

### Section A2-1 - MCP details

#### A2-1.1 MCP specifications

Please provide the details requested in Table A2-1 for each authorised and proposed MCP.

Each MCP must have a unique plant number (Plant No.) and be listed separately. If you need to include additional plants, please use a separate sheet.

When completing Table A2-1 please use the following descriptions of plant and fuel:

**Type of plant\*:**

* Diesel engine
* Gas turbine
* Dual fuel engine
* Other engine
* Other medium combustion plant

**Type of fuel\*\*:**

* Solid biomass
* Other solid fuels (e.g. coal, waste-derived fuel; please specify the type)
* Gas oil
* Liquid fuel other than gas oil (e.g. biodiesel; please specify the type)
* Natural gas
* Gaseous fuels other than natural gas (e.g. biogas, propane; please specify the type)

**Table A2-1: Medium combustion plant(s) details**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Plant no.**(1,2,3, etc.) | **Manufacturer** (make, model and serial number) | **Type of Plant\*** | **Start date of operation** | **Expected annual operating hours** | **Average load in use** | **Rated thermal input** (MW) | **Type of fuel\*\*** | **Thermal input of each fuel if mixed**(MW) |
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#### A2-1.2 Total rated thermal input (RTI)

Please provide the total rated thermal input for all MCP equal to or greater than 1 MW and less than 50 MW at the authorised place.

| **Total rated thermal input** |
| --- |
|  |

#### A2-1.3 Reduced or restricted RTI

If you are applying to reduce or restrict the RTI of plant that is already authorised, please provide your calculations or proposed restriction method.

Refer to [SEPA capacity and threshold guidance](https://www.sepa.org.uk/easr) for more information.

| **Document reference** |
| --- |
|  |

#### A2-1.4 Existing plant

If you are adding existing plant (put into operation on or before 20 December 2018) to your permit, please provide evidence that the plant was put into operation on or before 20 December 2018. Use the plant number from Table A2-1 to identify which plant you are referring to.

| **Document reference** |
| --- |
|  |

#### A2-1.5 Secondary abatement

Where the variation proposes changes to the secondary abatement or if you are adding an MCP with secondary abatement, please provide details. Describe the equipment, systems, or treatments that will be used to control, prevent, or minimise the likely air emissions from the MCP. Explain why these are the best options. Use the plant number from Table A2-1 to identify which plant you are referring to.

| **Document reference** |
| --- |
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#### A2-1.6 Other processes

If applicable, please provide details of or changes to any other processes or activities that are associated with or support the operation of the MCP. For example, waste handling, energy recovery, onsite fuel processing, backup fuel, chemical or fuel storage.

| **Document reference** |
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#### A2-1.7 Emission limit values (ELV) exemptions

#### A2-1.7.1 ELV exemptions

Some MCP may be exempt from complying with emission limit values (ELVs).

EASR lists a number of exemptions, including but not limited to:

* MCP operating under a certain number of hours
* MCP using biomass as its main fuel
* MCP serving a public district heating network

For the full list of exemptions, please check the [activity webpage](http://www.sepa.org.uk/easr).

If the proposed variation includes changes to ELV exemptions, or if you are adding an MCP to your permit and it is exempt from complying with ELVs, please provide details.

| **Document reference** |
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#### A2-1.7.2 Plant operating less than 500 hours per year

You may request an exemption from compliance with the ELVs for:

* Existing plant (put into operation on or before 20 December 2018) that will not be operated for more than 500 hours per year (calculated as a rolling average over a period of 5 years).
* New plant (put into operation after 20 December 2018) that will not be operated for more than 500 hours per year (calculated as a rolling average over a period of 3 years).

If you would like to request an exemption from compliance with the ELVs and you are declaring that your plant(s) will operate for 500 hours or less per year, please provide the corresponding plant number(s) from Table A2-1 below.

| **Plant number(s)** |
| --- |
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Note: You are declaring that your plant(s) will operate for 500 hours or less per year.

#### A2-1.8 Standard Industry Classification (SIC)

The SIC system categorises businesses by industry sector in the UK. Your SIC code helps us understand the primary nature of your business. You can find the right SIC code using online search tools, such as the one available on Companies House website.

If your SIC code has changed, please provide the new code.

| **SIC code** |
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### Section A2-2 - Air emissions risk assessment

**A2-2.1 Habitats impact and human health assessment**

In Section 3.3 of this form, you should have already provided an air emissions inventory and demonstrated that your emissions to air will not cause significant harm to the environment, human health, or designated sites in accordance with our guidance on [air emission risk assessments](http://www.sepa.org.uk/easr).

Please provide the document references for these assessments.

| **Document reference** |
| --- |
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**A2-2.2 Stack assessment**

To assess your application in accordance with The Conservation (Natural Habitats, &c.) Regulations 1994 (the Habitats Regulations), please complete Table A2-2 with the required details for each stack.

When completing the table, please assume the following:

* SO2 emissions are 0 (zero) for natural gas, gas oil, biomass, and hydrotreated vegetable oil.
* For both SO2 and NOx emission rates, provide the values in one of the following units: tonnes/year, kg/day, or grams/sec.

**Table A2-2: Stack(s) details**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Plant no.** (as per Table A2-1) | **National Grid Reference** (NGR) | **Inner diameter** (m) | **Gas temperature** (°C)   | **Gas velocity** (m/sec) | **SO2 emission rate** (tonnes/year, kg/day, grams/sec) | **NOx emission rate**(tonnes/year, kg/day, grams/sec) | **Stack height above ground** (m) | **Stack height above roof ridge** (m) |
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### Section A2-3 - Aggregation details for new MCP

If you are adding or varying two or more new MCPs (put into operation after 20 December 2018), they may be combined and considered as a single plant if the waste gases are discharged through a common discharge point, such as a stack. This approach can help improve the dispersion of emissions.

Do you intend to discharge waste gases through a common stack?

Yes [ ]

No [ ]

* If ‘Yes’, please submit a map showing the location of each MCP and all discharge points (e.g. stacks).

| **Document reference** |
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* If ‘No’, please provide technical and economic justification explaining why discharging through a common stack is not feasible.

| **Document reference** |
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## Appendix 3: Energy efficiency

Complete this appendix if the requirements of schedule 25 apply to your activity.

You **do not** need to complete this appendix if:

* the activity is excluded by paragraph 3 of schedule 25,
* the activity began before 30 October 2014, or
* the plant or installation was substantially refurbished before 30 October 2014.

Schedule 25 applies to the activities listed below where:

* they generate electricity and have a rated thermal input exceeding 20 MW; or
* when one or more of these activities is operated at the same place and have a total rated thermal input exceeding 20 MW.

The activities are:

* Operating a large combustion plant.
* Waste incineration or waste co-incineration at a waste incineration plant or waste co-incineration plant.
* Operating a medium combustion plant.
* Burning any fuel in combustion plants which generate electricity on the same site with an aggregated rated thermal input of 1 MW or more as described in paragraph 1 of chapter 1 of part 3 of schedule 26 of EASR.

Schedule 25 also applies to industrial emissions activities or other emissions activities with a rated thermal input exceeding 20 MW, which:

* generate waste heat at a useful temperature level, or
* form part of a new or existing district heating or cooling network.

The appropriate energy efficiency application fee should be incorporated into your total application fee. Please see our charging scheme for further information. Before completing the form, please contact ppcpermitting@sepa.org.uk for our most recent guidance on energy efficiency cost benefit analysis which will explain the methodology to be applied.

### Section A3-1 - Energy efficiency

Does schedule 25 apply to your activity?

Yes [ ]

No [ ]

If ‘Yes’, please provide full information in a separate document.

If ‘No’, please specify which exemption criteria apply to your activity.

| **Document reference** |
| --- |
|  |

###

### Section A3-2 - Cost benefit analysis

**A3-2.1 Cost benefit analysis**

Has a comprehensive national assessment and any associated cost benefit analysis demonstrated that a site-specific cost benefit is unlikely to be positive?

Yes [ ]

No [ ]

If ‘Yes’, please provide details.

If ‘No’, please supply a completed comprehensive cost benefit analysis in accordance with schedule 25, part 2 of EASR.

| **Document reference** |
| --- |
|  |

**A3-2.2 Opportunities for cogeneration or district heating**

Please supply results of your own search for opportunities for high efficiency cogeneration or district heating.

| **Document reference** |
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|  |

**A3-2.3 Potential heat loads**

Please supply any evidence of discussions with operators of potential heat loads which could be supplied.

| **Document reference** |
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|  |

**A3-2.4 Heat availability or requirements at the authorised place**

Please supply any technical detail on the amount and type of heat available from/required by the authorised place.

| **Document reference** |
| --- |
|  |

**A3-2.5 Heat availability or requirements at potential heat loads or sources**

Please supply any technical details on the amount and type of heat required by or available from potential heat loads or sources.

| **Document reference** |
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|  |

**A3-2.6 High-efficiency co-generation calculations**

Please supply high-efficiency co-generation calculations.

| **Document reference** |
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**A3-2.7 Plan to implement the scheme**

If the cost benefit analysis shows a positive result (i.e. the financial benefits are greater than the costs), provide a plan to implement the scheme, with justification and any supporting information. Include a discussion on any sensitivity analysis used.

| **Document reference** |
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