

# Notice of variation and consolidation with introductory note

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

---

The Francis Crick Institute Limited

Francis Crick Institute  
1 Midland Road  
London  
NW1 1AT

**Variation application number**

EPR/GP3036JF/V002

**Permit number**

EPR/GP3036JF

# Francis Crick Institute

## Permit number EPR/GP3036JF

### Introductory note

#### This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

This variation incorporated the following changes:

- **Addition of Hydrotreated Vegetable Oil (HVO):** the site will begin using HVO for the x4 standby generators and for the x3 Steam boilers and x3 LTHW boilers. Operation on HVO will be for emergency purposes only and therefore will be limited to maximum of 500 operating hours per year.
- **Dual fuel capability of the boiler plant:** the permit has been updated to reflect that the x3 Steam boilers and x3 LTHW boilers are dual fuel capable, operating primarily on natural gas with gas oil / HVO as a backup / standby fuel. The use of gas oil/ HVO is limited to a maximum of 500 hours per year and only when there is an interruption to the gas supply.
- **Update Emissions Limit Values (ELVs):** the ELVs for the x1 CHP and x3 Steam Boilers are amended to the new plant limits as per the Medium Combustion Plant Directive (MCPD), being 95mg/m<sup>3</sup> and 100 mg/m<sup>3</sup> respectively.
- **Change plant classification to limited hours:** the operating envelope of the x3 LTHW boilers is changing. These boilers are now listed as existing, limited hours MCP plant. They are restricted to operating less than 500 hours per year as a rolling average over five years.
- **Medium Combustion Plant Directive:** The permit has been reviewed against the requirements of the Medium Combustion Plant Directive (MCPD) and relevant conditions and monitoring requirements have been added. The total aggregated thermal input of all Medium Combustion Plant at the site is approximately 66.15 MWth. This consists of the following:
  - 1 x 4.54 MWth CHP
  - 1 x 8.73 MWth Steam Boiler
  - 2 x 8.25 MWth Steam Boiler
  - 1 x 3.04 MWth LTHW Boiler
  - 1 x 3.03 MWth LTHW Boiler
  - 1 x 2.94 MWth LTHW Boiler
  - 4 x 6.84 MWth Standby diesel generators (SDG)

The schedules specify the changes made to the permit.

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements. We are satisfied that the permit will ensure that a high level of protection is provided for the environment and human health and that the activities will not give rise to any significant pollution of the environment or harm to human health.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

| Status log of the permit                                          |                         |                                                                                                                                                                                                                                |
|-------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                                                       | Date                    | Comments                                                                                                                                                                                                                       |
| Application EPR/GP3036JF/V002                                     | Duly made<br>27/03/2020 | Application for Chapter II >50MW aggregated combustion plant.                                                                                                                                                                  |
| Additional information received                                   | 10/06/2020              | Stack Data Supporting Modelling, clarification on size of boilers onsite, date of combustion plant installation, monitoring information, equipment design, process in place for other than normal operating conditions (OTNOC) |
| Permit determined<br>EPR/GP3036JF<br>Billing reference (GP3036JF) | 03/11/2020              | Permit issued to The Francis Crick Institute Limited.                                                                                                                                                                          |
| Application EPR/GP3036JF/V002<br>(variation and consolidation)    | Duly made<br>09/08/2024 | Application to introduce HVO as a standby fuel, set MCPD limits for the x1 CHP and x3 Steam Boilers and limit the operational hours of the x3 LTHW boilers to <500hrs/ year                                                    |
| Variation determined and<br>consolidation issued<br>EPR/GP3036JF  | 18/09/2024              | Varied and consolidated permit issued in modern format.<br><br>Includes an Environment Agency initiated variation following Medium Combustion Plant permit review.                                                             |

End of introductory note

# Notice of variation and consolidation

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

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

### Permit number

EPR/GP3036JF

### Issued to

**The Francis Crick Institute Limited** (“the operator”)

whose registered office is

**1 Midland Road  
London  
NW1 1AT**

company registration number 06885462

to operate a regulated facility at

**Francis Crick Institute  
1 Midland Road  
London  
NW1 1AT**

to the extent set out in the schedules.

The notice shall take effect from 18/09/2024

| Name             | Date       |
|------------------|------------|
| Eleanor Blackeby | 18/09/2024 |

Authorised on behalf of the Environment Agency

## Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Table S2.1 as referenced in conditions 2.3.3 is amended to allow the use of equivalent substitute fuels in the place of gas oil as agreed by the Environment Agency.
- Table S1.1 as referenced in conditions 2.1.1 and 2.3.5 is amended to:
  - account for the dual fuel capabilities of the boiler plant. Boilers are operated primarily on natural gas with gas oil or equivalent fuel as a backup / standby fuel in the event of an interruption to the gas supply up to a maximum of 500 operating hours per year; and
  - apply the limited hours (500 hour per year, as a rolling average) operating envelope for the LTHW boilers.
- Table S3.1 as referenced in conditions 3.1.1, 3.5.1(a) and 3.5.4 is amended to:
  - implement the relevant MCPD emission limits for the CHP and x3 Steam Boilers;
  - account for the dual fuel capabilities of the boiler plant; and
  - remove the emission limits values (ELVs) for the LTHW boilers.
- Table S4.2 as referenced in condition 4.2.2(b) is amended to require reporting of the use of backup fuel for the boilers and the total yearly operation (hours) for the LTHW boilers.

The following conditions were added as a result of the application made by the operator:

- Condition 2.3.6 is added to implement the 500 hour per year, as a rolling average, operating envelope for the LTHW boilers.

The following conditions are amended as detailed, following an Environment Agency initiated variation:

- Table S3.1 as referenced in conditions 3.1.1, 3.5.1(a) and 3.5.4 is amended to apply the monitoring requirements of the MCPD to the existing standby diesel generators.

The following conditions were added following an Environment Agency initiated variation:

- Condition 3.5.5 is added to incorporate monitoring requirements for medium combustion plant

## Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/GP3036JF**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3036JF/V002 authorising,

**The Francis Crick Institute Limited** (“the operator”),

whose registered office is

**1 Midland Road**

**London**

**NW1 1AT**

company registration number 06885462

to operate an installation at

**Francis Crick Institute**

**1 Midland Road**

**London**

**NW1 1AT**

to the extent authorised by and subject to the conditions of this permit.

| Name             | Date       |
|------------------|------------|
| Eleanor Blackeby | 18/09/2024 |

Authorised on behalf of the Environment Agency

# Conditions

## 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, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure 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 condition 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 this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) take any further appropriate measures identified by a review.

### 1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
  - (b) maintain records of raw materials and water used in the activities;
  - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
  - (d) take any further appropriate measures identified by a review.

### 1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1: Standby diesel generators may be used but for no more than 500 hours per year.
- 2.3.6 For the following activities referenced in schedule 1, table S1.1: LTHW Boilers shall operate for less than 500 hours per year as a rolling average over a period of five years and with operation in any individual year limited to a maximum of 750 hours.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

### **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.



### **3 Emissions and monitoring**

#### **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

#### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

#### **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

#### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.5 Monitoring**

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.5.5 The first monitoring measurements shall be carried out:

- (a) within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later; and
- (b) at any time for existing MCPs, but no later than the relevant compliance date.

## **4 Information**

### **4.1 Records**

4.1.1 All records required to be made by this permit 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, or in the case of the following records until permit surrender:
  - (i) off-site environmental effects; and
  - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

## 4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform the Environment Agency,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;
  - (b) of a breach of any permit condition 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;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1(a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

- 4.3.3 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.
- 4.3.4 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:
- (a) any change in the operator's name or address; and
  - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) 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.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
  - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
  - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit 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.

# Schedule 1 – Operations

| Table S1.1 activities |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activity reference    | Activity listed in Schedule 1 of the EP Regulations                                                               | Description of specified activity                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Limits of specified activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AR1                   | Section 1.1 Part A(1) (a)<br>Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more. | <p>Total aggregated thermal input of 66.15 MWth</p> <p>1 x 4.54 MWth CHP<br/>1 x 8.73 MWth Steam Boiler<br/>2 x 8.25 MWth Steam Boiler<br/>1 x 3.04 MWth LTHW Boiler<br/>1 x 3.03 MWth LTHW Boiler<br/>1 x 2.94 MWth LTHW Boiler</p> <p>Windshield = Total aggregated thermal input of: 38.8 MWth.</p> <p>Existing MCPs, all fuelled by natural gas (gas oil or equivalent substitute fuel may be used for the LTHW Boilers as a standby fuel, see limits of specified activity).</p> | <p>From receipt of fuel to discharge of exhaust gases and wastes, and the generation of electricity and steam.</p> <p>For each of the Steam Boilers and LTHW Boilers, gas oil or equivalent substitute fuel (to be agreed in writing with the Environment Agency) may be used as a standby fuel for up to 500 hours per year during times of interruption to the gas supply.</p> <p>The operational hours of each of the LTHW Boilers shall not exceed the specifications set out in condition 2.3.6.</p>                                                                                                                 |
|                       |                                                                                                                   | <p>Four 6.84 MWth Standby diesel generators (SDG) – individual stacks.</p> <p>3x existing and 1 x new MCP, all fuelled by gas oil or equivalent substitute fuel.</p>                                                                                                                                                                                                                                                                                                                  | <p>The operational hours of the installation SDG shall not exceed the specifications set out in condition 2.3.5.</p> <p>SDGs may be fired on gas oil or equivalent substitute fuel (to be agreed in writing with the Environment Agency).</p> <p>Generators shall only be operated for:</p> <ul style="list-style-type: none"> <li>• Normal Operation of SDG: ≤ 50 hours annually for testing purposes.</li> <li>• On-site emergencies and not elective power generation such as Balancing Services or Demand Side Response operations including Frequency Control Demand Management (FCDM) or Triad Avoidance</li> </ul> |

| Table S1.1 activities |                                                     |                                   |                                                                                                                                                |
|-----------------------|-----------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Activity reference    | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity                                                                                                                   |
|                       |                                                     |                                   |                                                                                                                                                |
|                       | <b>Directly Associated Activity</b>                 |                                   |                                                                                                                                                |
| AR2                   | Directly Associated Activity                        | Storage of raw materials          | From receipt of raw materials to use within the facility, including all associated pipe work, handling and transfer to and from storage tanks. |

| Table S1.2 Operating techniques              |                                                                                                                                                                                                                                                                                                                              |                       |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Description                                  | Parts                                                                                                                                                                                                                                                                                                                        | Date Received         |
| Application                                  | All Supporting Information Documents referenced in response to Part B2 and B3 of the Application Form.<br>Environmental Permit Application for Francis Crick Institute (GP3036JF) Technical Description and BAT Appraisal.<br>Demonstration of Techniques, Standards and Best Available Techniques (BAT) – Scoping Exercise. | Duly Made<br>27/03/20 |
| Response to Schedule 5 Notice dated 14/05/20 | Stack Data Supporting Modelling, clarification on size of boilers onsite, date of combustion plant installation, monitoring information, equipment design, process in place for other than normal operating conditions (OTNOC)                                                                                               | 10/06/20              |

| Table S1.3 Improvement programme requirements |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Reference                                     | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date     |
| IC1                                           | <p>The operator shall produce an Air Quality Management Plan outlining the response measures to be taken in the event of a grid failure. This should include but not be limited to the following considerations:</p> <ul style="list-style-type: none"> <li>• Regard for the pressures on the local Air Quality Management Area, including liaison with the Local Authority.</li> <li>• Regard for the predicted potential impact indicated by the air dispersion modelling at individual receptors;</li> <li>• Specific timescales for response measures;</li> <li>• Regard for how local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day;</li> <li>• Contingency for how the response will be carried out in the event scenario i.e. loss of power; and</li> <li>• Timescales for continued review of the management plan.</li> </ul> <p>The Air Quality Management Plan shall be submitted to the Environment Agency for approval prior to implementation.</p> | Complete |
| IC2                                           | Emissions monitoring completed as part of the permit application has identified that the x1 CHP and x3 Steam Boilers are not capable of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Complete |

| Table S1.3 Improvement programme requirements |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Reference                                     | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date |
|                                               | <p>achieving the BAT ELVs, as stated in Table S3.1; the Operator shall undertake a review of the options and the capability to reduce emissions to air including but not limited to:</p> <ul style="list-style-type: none"> <li>• Restricting operational hours including operating plant at the minimum achievable hours or ceasing operating individual plant.</li> <li>• Installing secondary abatement measures including Selective Catalytic Reduction at different scales and treatment capacities.</li> <li>• A comparison of emission reduction measures through air dispersion modelling scenarios to compare the effectiveness of different emissions reduction measures on their own or in combination.</li> </ul> <p>The report shall put forward the most appropriate emission reduction measures or combination of measures and propose a timescale for implementation, and demonstrate why based on emissions reduction capability and cost, these measures represent BAT.</p> <p>The operator shall implement the measures proposed in line with the timescale agreed in writing with the Environment Agency.</p> |      |

## Schedule 2 – Waste types, raw materials and fuels

| Table S2.1 Raw materials and fuels                                                   |                       |
|--------------------------------------------------------------------------------------|-----------------------|
| Raw materials and fuel description                                                   | Specification         |
| Natural gas for CHP and boilers                                                      | -                     |
| Gas oil or equivalent substitute to be agreed in writing with the Environment Agency | <0.1% sulphur content |



## Schedule 3 – Emissions and monitoring

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements |                                                                                     |                                                                           |                                              |                  |                                            |                               |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------|------------------|--------------------------------------------|-------------------------------|
| Emission point ref. & location                                                         | Source                                                                              | Parameter                                                                 | Limit (including unit) <small>Note 5</small> | Reference period | Monitoring frequency <small>Note 2</small> | Monitoring standard or method |
| A1 [Points EP1-7 on site plan in Schedule 7]<br><small>Note 1</small>                  | CHP                                                                                 | Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 95 mg/m <sup>3</sup>                         | Hourly Average   | Annually                                   | BS EN 14792                   |
|                                                                                        |                                                                                     | Carbon monoxide                                                           | No limit set                                 | --               | Annually                                   | BS EN 15058                   |
|                                                                                        | Steam Boilers: 1 >5MW<br><br>Dual fuel medium combustion plant fired on natural gas | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 100 mg/m <sup>3</sup>                        | Hourly Average   | Annually                                   | BS EN 14792                   |
|                                                                                        |                                                                                     | Carbon monoxide                                                           | No limit set                                 | --               | Annually                                   | BS EN 15058                   |
|                                                                                        | Steam Boilers: 2 >5MW<br><br>Dual fuel medium combustion plant fired on natural gas | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 100 mg/m <sup>3</sup>                        | Hourly Average   | Annually                                   | BS EN 14792                   |
|                                                                                        |                                                                                     | Carbon monoxide                                                           | No limit set                                 | --               | Annually                                   | BS EN 15058                   |
|                                                                                        | Steam Boilers: 3 >5MW<br><br>Dual fuel medium combustion plant fired on natural gas | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 100 mg/m <sup>3</sup>                        | Hourly Average   | Annually                                   | BS EN 14792                   |
|                                                                                        |                                                                                     | Carbon monoxide                                                           | No limit set                                 | --               | Annually                                   | BS EN 15058                   |
|                                                                                        | Steam Boilers: 4 >5MW<br><br>Dual fuel medium combustion plant fired on natural gas | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 100 mg/m <sup>3</sup>                        | Hourly Average   | Annually                                   | BS EN 14792                   |
|                                                                                        |                                                                                     | Carbon monoxide                                                           | No limit set                                 | --               | Annually                                   | BS EN 15058                   |

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements |                                                                       |                                                                           |                                              |                  |                                                                                 |                                                                                                                                                |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------|------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission point ref. & location                                                         | Source                                                                | Parameter                                                                 | Limit (including unit) <small>Note 5</small> | Reference period | Monitoring frequency <small>Note 2</small>                                      | Monitoring standard or method                                                                                                                  |
|                                                                                        | Steam Boilers: 1, 2 and 3                                             | No parameters set                                                         | No limits set                                | ---              | ---                                                                             | ---                                                                                                                                            |
|                                                                                        | Dual fuel medium combustion plant fired on gas oil or equivalent fuel |                                                                           |                                              |                  |                                                                                 |                                                                                                                                                |
|                                                                                        | LTHW Boilers: 4 <5MW                                                  | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                                | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years | In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                        | Dual fuel medium combustion plant fired on natural gas                | Carbon monoxide                                                           | No limit set                                 | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years |                                                                                                                                                |
|                                                                                        | LTHW Boilers: 5 <5MW                                                  | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                                | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years | In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                        | Dual fuel medium combustion plant fired on natural gas                | Carbon monoxide                                                           | No limit set                                 | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years |                                                                                                                                                |
|                                                                                        | LTHW Boilers: 6 <5MW                                                  | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                                | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years | In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                        | Dual fuel medium combustion plant fired                               | Carbon monoxide                                                           | No limit set                                 | Periodic         | After 1500 operating                                                            |                                                                                                                                                |

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements |                                                                                                       |                                                                           |                                              |                  |                                                                                                                                                                |                                                                                                                                                |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission point ref. & location                                                         | Source                                                                                                | Parameter                                                                 | Limit (including unit) <small>Note 5</small> | Reference period | Monitoring frequency <small>Note 2</small>                                                                                                                     | Monitoring standard or method                                                                                                                  |
|                                                                                        | on natural gas                                                                                        |                                                                           |                                              |                  | hours have elapsed and no less frequent than every 5 years                                                                                                     | Published 20 March 2024 (formerly known as TGN M5)                                                                                             |
|                                                                                        | LTHW Boilers: 4, 5 and 6<br><br>Dual fuel medium combustion plant fired on gas oil or equivalent fuel | No parameters set                                                         | No limits set                                | ---              | ---                                                                                                                                                            | ---                                                                                                                                            |
| A2 [Point EP8 on site plan in Schedule 7]                                              | Diesel Generator (existing) <small>Note 3</small>                                                     | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                                | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                        |                                                                                                       | Carbon monoxide                                                           | No limit set                                 | Periodic         |                                                                                                                                                                |                                                                                                                                                |
| A3 [Point EP9 on site plan in Schedule 7]                                              | Diesel Generator (existing)                                                                           | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                                | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                        |                                                                                                       | Carbon monoxide                                                           | No limit set                                 | Periodic         |                                                                                                                                                                |                                                                                                                                                |

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |                                                                           |                                          |                  |                                                                                                                                                                |                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission point ref. & location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Source                                   | Parameter                                                                 | Limit (including unit) <sup>Note 5</sup> | Reference period | Monitoring frequency <sup>Note 2</sup>                                                                                                                         | Monitoring standard or method                                                                                                                  |
| A4 [Point EP10 on site plan in Schedule 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Diesel Generator (existing)              | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                            | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | In line with web guide ‘Monitoring stack emissions: low risk MCPs and specified generators’ Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | Carbon monoxide                                                           | No limit set                             | Periodic         |                                                                                                                                                                |                                                                                                                                                |
| A5 [Point EP11 on site plan in Schedule 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Diesel Generator (new) <sup>Note 4</sup> | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | No limits set                            | Periodic         | After 1500 operating hours have elapsed and no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | In line with web guide ‘Monitoring stack emissions: low risk MCPs and specified generators’ Published 20 March 2024 (formerly known as TGN M5) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | Carbon monoxide                                                           | No limit set                             | Periodic         |                                                                                                                                                                |                                                                                                                                                |
| Note 1: A1 – 7 individual flues in a common windshield - total capacity is 38.79MWth.<br>Note 2: The first measurements shall be carried out within four months of the grant of a permit to, or of the date of the start of the operation, whichever is the latest.<br>Note 3: An existing combustion plant’ means a combustion plant put into operation before 20 December 2018 or for which a permit was granted before 19 December 2017 pursuant to national legislation provided that the plant is put into operation no later than 20 December 2018<br>Note 4: A new combustion plant’ means a combustion plant other than an existing combustion plant |                                          |                                                                           |                                          |                  |                                                                                                                                                                |                                                                                                                                                |

| Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements |                                     |                   |                    |                  |                      |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|--------------------|------------------|----------------------|-------------------------------|
| Emission point ref. & location                                                                                                                | Source                              | Parameter         | Limit (incl. Unit) | Reference period | Monitoring frequency | Monitoring standard or method |
| S1 (W1 on site plan in schedule 7)                                                                                                            | Uncontaminated Surface water runoff | No parameters set | No limit set       | ---              | ---                  | ---                           |
| S2 (W2 on site plan in schedule 7)                                                                                                            | Uncontaminated Surface water runoff | No parameters set | No limit set       | ---              | ---                  | ---                           |

| <b>Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site–<br/>emission limits and monitoring requirements</b> |                                           |                         |                               |                             |                                 |                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|-------------------------------|-----------------------------|---------------------------------|----------------------------------------------|
| <b>Emission<br/>point ref. &amp;<br/>location</b>                                                                                                        | <b>Source</b>                             | <b>Parameter</b>        | <b>Limit (incl.<br/>Unit)</b> | <b>Reference<br/>period</b> | <b>Monitoring<br/>frequency</b> | <b>Monitoring<br/>standard<br/>or method</b> |
| S3 (W3 on site<br>plan in<br>schedule 7)                                                                                                                 | Uncontaminated<br>Surface water<br>runoff | No<br>parameters<br>set | No limit set                  | ---                         | ---                             | ---                                          |

## Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

| <b>Table S4.1 Reporting of monitoring data</b>                 |                                               |                                                                                                                                                                   |                      |
|----------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Parameter</b>                                               | <b>Emission or monitoring point/reference</b> | <b>Reporting period</b>                                                                                                                                           | <b>Period begins</b> |
| Emissions to air<br>Parameters as required by condition 3.5.1. | A1 (excluding LTHW Boilers: 4, 5 and 6)       | Every 12 months                                                                                                                                                   | 1 January            |
| Emissions to air<br>Parameters as required by condition 3.5.1. | A1 (LTHW Boilers: 4, 5 and 6 only)            | After 1500 operating hours have elapsed<br>And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | 1 January            |
| Emissions to air<br>Parameters as required by condition 3.5.1. | A2 to A5                                      | After 1500 operating hours have elapsed<br>And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5 | 1 January            |

| <b>Table S4.2: Annual production/treatment</b>                       |                                                   |                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parameter</b>                                                     | <b>Units</b>                                      |                                                                                                                                                                                                                                                  |
| Power generated                                                      | Annually                                          | MWh                                                                                                                                                                                                                                              |
| Generator operation for testing/maintenance<br>Emission point: A2-A5 | Report to be submitted annually                   | <ul style="list-style-type: none"> <li>- Total hours operation for the site (hours)</li> <li>- Total hours operation per generator (hours)</li> <li>- Total number of runs per generator (quantity)</li> <li>- Time per run (minutes)</li> </ul> |
| Generator operation for emergency running<br>Emission point: A2-A5   | Within 24 hours of emergency operation commencing | <ul style="list-style-type: none"> <li>- Date and time of National Grid failure</li> <li>- Number of generators operating immediately after the failure</li> <li>- Number of generators operating two hours after failure</li> </ul>             |

| <b>Table S4.2: Annual production/treatment</b>                                                   |          |                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parameter</b>                                                                                 |          | <b>Units</b>                                                                                                                                                     |
|                                                                                                  |          | Anticipated duration of the mains supply failure (hours)                                                                                                         |
| Generator operation for emergency running<br>Emission point: A2-A5                               | Annually | <ul style="list-style-type: none"> <li>- Total number of runs</li> <li>- Duration of runs (hours)</li> </ul>                                                     |
| Fuel usage<br>Emission point: A2-A5                                                              | Annually | <ul style="list-style-type: none"> <li>- Fuel type</li> <li>- Tonnes</li> </ul>                                                                                  |
| Total LTHW boiler operation<br>Emission point A1: LTHW boilers                                   | Annually | <ul style="list-style-type: none"> <li>- Hours</li> </ul>                                                                                                        |
| Boiler operation when fired on back up fuel<br>Emission point A1: steam boilers and LTHW boilers | Annually | <ul style="list-style-type: none"> <li>- Date and time of gas supply interruption</li> <li>- Total number of runs</li> <li>- Duration of runs (hours)</li> </ul> |

| <b>Table S4.3 Performance parameters</b> |                                |                                       |
|------------------------------------------|--------------------------------|---------------------------------------|
| <b>Parameter</b>                         | <b>Frequency of assessment</b> | <b>Units</b>                          |
| Water usage                              | Annually                       | tonnes                                |
| Energy usage                             | Annually                       | MWh                                   |
| Total raw material used                  | Annually                       | tonnes                                |
| Power generated                          | Annually                       | MWh                                   |
| Oil changes (Diesel Generator)           | Every 6 months                 | Total number of changes and frequency |

| <b>Table S4.4 Reporting forms</b> |                                                                                 |                     |
|-----------------------------------|---------------------------------------------------------------------------------|---------------------|
| <b>Media/parameter</b>            | <b>Reporting format</b>                                                         | <b>Date of form</b> |
| Air                               | Form air 1 or other form as agreed in writing by the Environment Agency         | 03/11/20            |
| Water usage                       | Form water usage 1 or other form as agreed in writing by the Environment Agency | 03/11/20            |
| Energy usage                      | Form energy 1 or other form as agreed in writing by the Environment Agency      | 03/11/20            |
| Other performance indicators      | Form performance 1 or other form as agreed in writing by the Environment Agency | 03/11/20            |

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

|                                |  |
|--------------------------------|--|
| Permit Number                  |  |
| Name of operator               |  |
| Location of Facility           |  |
| Time and date of the detection |  |

|                                                                                                                                                                                                                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b> |  |
| <b>To be notified within 24 hours of detection</b>                                                                                                                                                                                                  |  |
| Date and time of the event                                                                                                                                                                                                                          |  |
| Reference or description of the location of the event                                                                                                                                                                                               |  |
| Description of where any release into the environment took place                                                                                                                                                                                    |  |
| Substances(s) potentially released                                                                                                                                                                                                                  |  |
| Best estimate of the quantity or rate of release of substances                                                                                                                                                                                      |  |
| Measures taken, or intended to be taken, to stop any emission                                                                                                                                                                                       |  |
| Description of the failure or accident.                                                                                                                                                                                                             |  |

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
| <b>(b) Notification requirements for the breach of a limit</b>                      |  |
| <b>To be notified within 24 hours of detection unless otherwise specified below</b> |  |
| Emission point reference/ source                                                    |  |
| Parameter(s)                                                                        |  |
| Limit                                                                               |  |
| Measured value and uncertainty                                                      |  |
| Date and time of monitoring                                                         |  |



|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
| <b>(b) Notification requirements for the breach of a limit</b>                      |  |
| <b>To be notified within 24 hours of detection unless otherwise specified below</b> |  |
| Measures taken, or intended to be taken, to stop the emission                       |  |

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Time periods for notification following detection of a breach of a limit</b> |                            |
| <b>Parameter</b>                                                                | <b>Notification period</b> |
|                                                                                 |                            |
|                                                                                 |                            |
|                                                                                 |                            |

|                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------|--|
| <b>(c) Notification requirements for the detection of any significant adverse environmental effect</b> |  |
| <b>To be notified within 24 hours of detection</b>                                                     |  |
| Description of where the effect on the environment was detected                                        |  |
| Substances(s) detected                                                                                 |  |
| Concentrations of substances detected                                                                  |  |
| Date of monitoring/sampling                                                                            |  |

## Part B – to be submitted as soon as practicable

|                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Any more accurate information on the matters for notification under Part A.                                                                            |  |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident                                                                       |  |
| Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission |  |
| The dates of any unauthorised emissions from the facility in the preceding 24 months.                                                                  |  |

|           |  |
|-----------|--|
| Name*     |  |
| Post      |  |
| Signature |  |
| Date      |  |

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means 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.

“combined heat and power” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“EA TGN M5” means the ‘Environment Agency Technical Guidance Note M5: Monitoring of stack gas emissions from medium combustion plants and specified generators’ guidance published on Gov.UK.

“EP Regulations” means 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.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“medium combustion plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” 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.

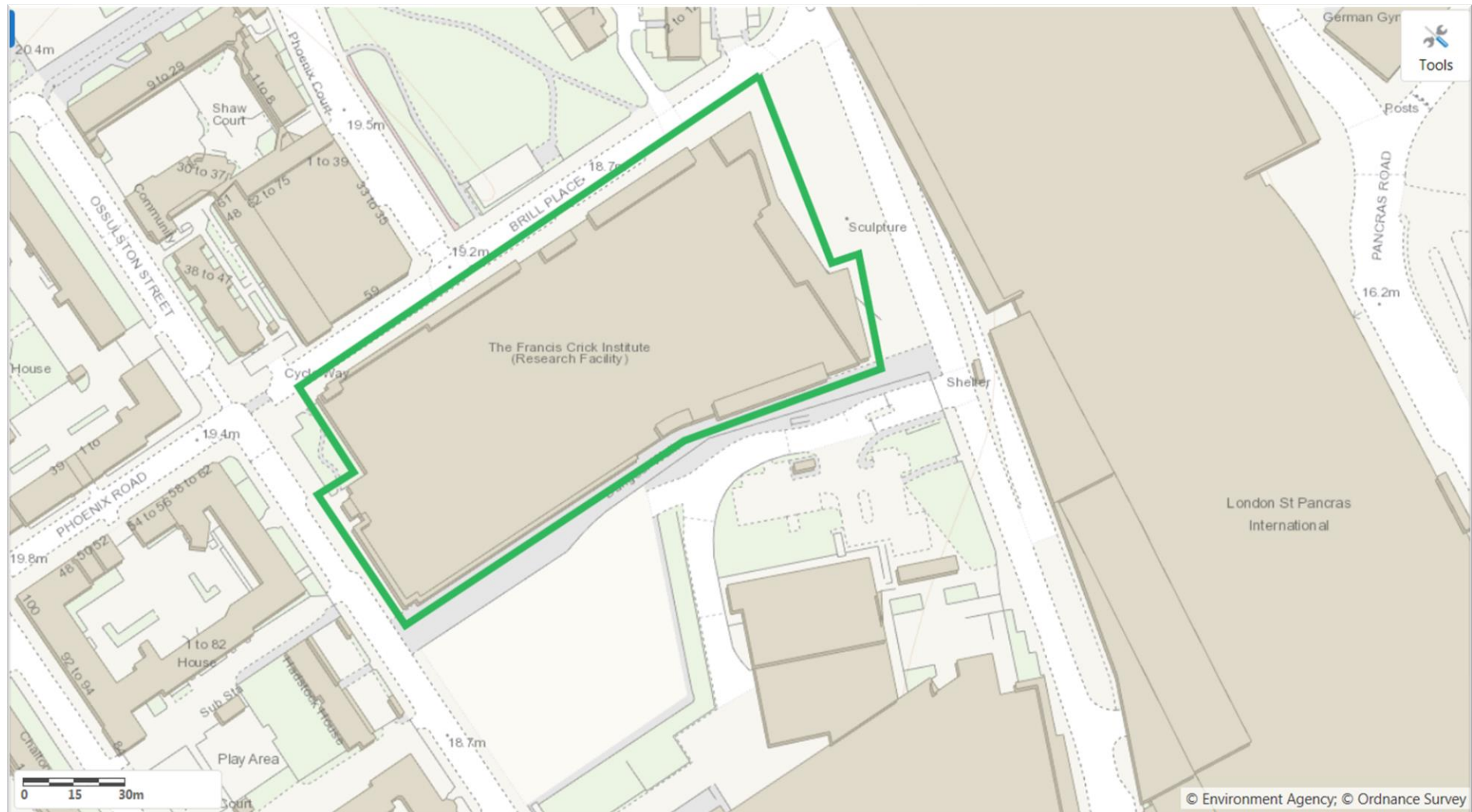
“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

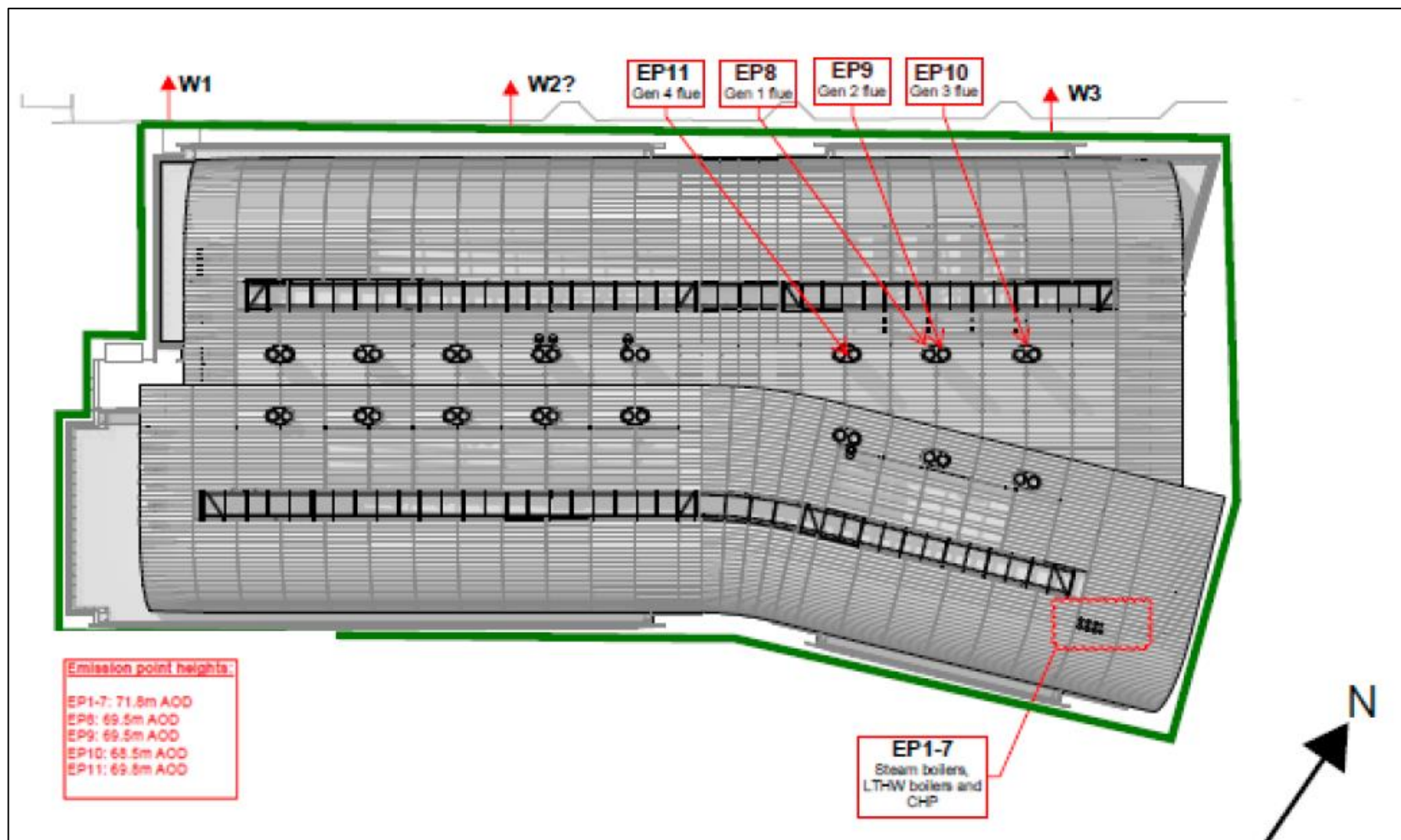
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- “year” means calendar year ending 31 December.

## Schedule 7 – Site plan



© Crown Copyright and Database Rights 2024 OS AC0000807064

## Emission points



END OF PERMIT