

Data Centre FAQs version 9.0 26/03/18

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The following.....

The EA expects the site's management system to embrace aspects of environmental impacts

See Main Supporting Document 3d – Management Systems

Planned audits might likely look at:

- 1. The most important data centre specific audit would be maintenance/testing run hours procedure so as to minimise impacts to local air
- 2. Oil storage regs
- 3. Hazardous waste control (i.e. waste engine oils)
- 4. EMS (including SCR maintenance) and reporting requirements (annual report and operating hours, possibly Pollution inventory)
- 5. Oil spills etc

- 6. F-gas releases
- 7. Noise complaints
- Electrical infrastructure maintenance plans to minimise data centre (non-grid) outages

See Main Supporting Document 3d – Management Systems. A planned audit schedule will incorporate all subject areas highlighted above. The site will be subject to regular external compliance audits in addition to BSi certification/surveillance audits.

It is appropriate to consider BAT for the adequate dispersion of exhaust emissions as part of the permit application:

- 1. Increased stack height
- 2. Vertical ports
- 3. Increased distances from buildings to be above roof line
- 4. Common windshield combining several individual flues

See Appendix D Air Quality Assessment – dispersion is demonstrated to be effective

Generally same rules acceptable for planning though clearly noise control is a BAT issue within the permit application

See Appendix E Noise Assessment

Fuel Storage - Bunding and management control for deliveries are expected in the permit application.

See Main Supporting Document-Fuel Storage and Delivery

Air quality impacts need to be modelled to justify permitting the operation (testing and grid outage).

- 1. Maintenance Schedule Model the predictable, managed testing and maintenance activity for the standby plant (including some scope for changes and flexibility), and then
- 2. Outage Model the unpredictable emergency grid outage any time during the year requiring the maximum plant to operate for the required outage duration i.e. 'likely maximum' specified by the company.
- 3. Non-emergency Elective Power Model

See Appendix D Air Quality Assessment

Annual report for Data Centres is mainly a summary of how the year was managed; and is best focused on the BAT type aspects on minimising emissions impacts:

- 1. Confirming the run hours per engine and how this is apportioned to testing and outage (and possibly elective power operations); any part-site/whole site blackout test and their scheduling with regards to the AQ modelling is maintenance testing changing significantly to what was modelled?
- 2. Grid and internal electrics reliability issues (are you getting more brown outs and asking Grid to investigate their kit?)
- 3. 3Re-iterate any in-year notifications of grid outages and hence any need to operate in anger; and total plant emergency hours run (how close to the 18hours?)
- 4. Advising of future plans i.e. need to run due to servicing the switch gear, new phases being planned, reconfiguration of generators e.g. 2n going to an n+1 etc
- 5. Procedure reviews related to the permit
- 6. Confirming no incidents (oil spills, F-gas releases etc)
- 7. General aspects of fuel and energy efficiency

An annual report will be prepared in line with these requirements and those specified within the permit

An EA IED permit includes some standard conditions and the general requirement for the 4-yearly permit review requirements for

- 1.2.1 Energy Efficiency;
- 1.3.1 Efficient use of raw materials; and
- 1.4.2 Avoidance, recovery and disposal of wastes produced by the activities

Periodic audits and reviews will be undertaken in line with specified issued and reporting periods within the permit.

Minimise overall energy demand under various routes other than EPR i.e. the CCA or perhaps general standards like 9001, 14001 and 50001

The site will be subject to CCA and will operate certified systems to the following standards:

ISO 9001:2015 – Quality Management System

ISO 27001: 2013 – Information Security Management System

ISO 22301:2012 – Business Continuity Management System

ISO 14001:2015 – Environmental Management System

ISO 50001:2011 – Energy Management System