



Barnsley Protocol for Monitoring Point Source Emissions to Air from the Granulation Process Point A1 [Eldan] and Point A2 [Trennso]

This protocol summarises the proposals to undertake:

- Representative monitoring of the air discharged from point A1 and A2 including the parameters to be monitored, frequencies of monitoring and methods to be used as required by IC2 part (a)
- A test to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A1 and A2 identifying the fractions within the PM10, and PM2.5 ranges. The proposal shall include a timetable for approval by the Environment Agency to carry out such tests and produce a report on the results.

The results of an assessment of the impact of the emission to air from the site using the Environment Agency's 'H1 Environmental Risk Assessment' tool has been completed and therefore

- i. proposals for appropriate measures to mitigate the impact of the emission where the assessment determines they are significant, including emissions limits and monitoring and dates for implementation of individual measures; and
- ii. details of appropriate measures for the operation and maintenance of the abatement system to ensure that where emission limits are proposed they are met or, where emission limits are not required, emissions remain insignificant.

The protocol has been written with reference to Environment Agency Technical Guidance Note M1.

Once approved by the Environment Agency, a copy of this protocol will be provided to relevant employees as well as all Site Managers and Supervisors and will form an integral part of the sites Environment Management System.

Site Specific Protocol (SSP)

As prescribed in the Environment Agency MCERTS Performance Standard, a Site Specific Protocol (SSP) will be undertaken for Ward Barnsley Site by an MCERTS Level II qualified consultant. The SSP will include full details with respect to the determinants to be sampled, the methodologies to be used, sample port requirements, sampling platform(s) requirements, access and egress requirements, health and safety requirements and recommendations for each emission point.

The key points are summarised below:

Health & Safety Considerations

Monitoring will be undertaken with due regard for Health and Safety considerations, such as safe access to monitoring locations, manual handling and PPE etc.

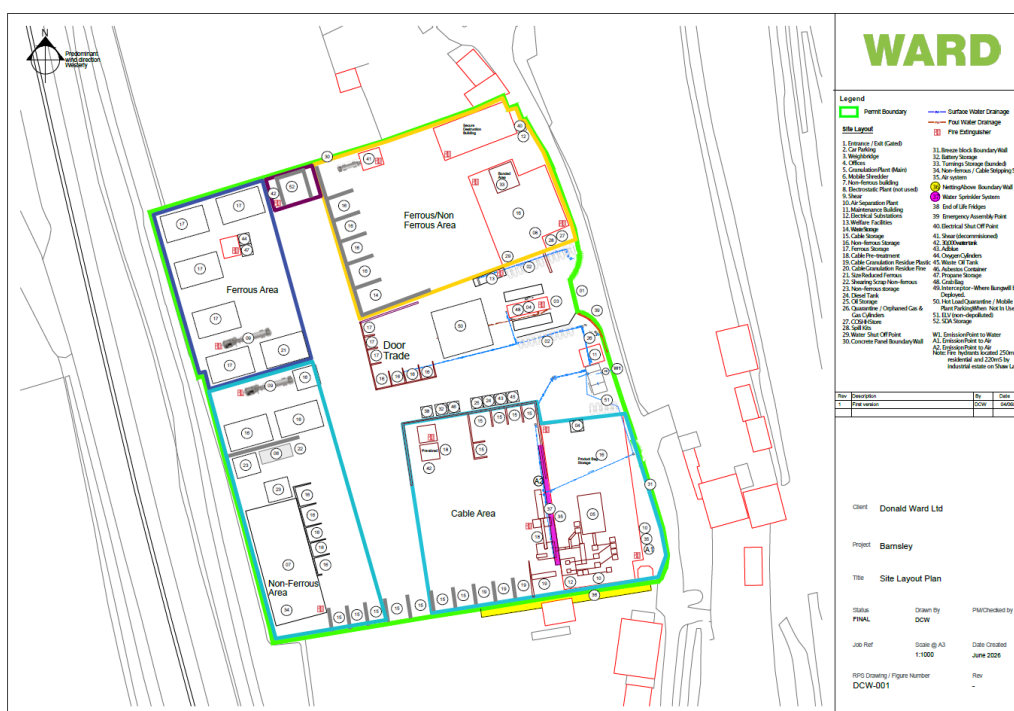
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The SSP details that CES Technicians or suitably qualified subcontractors (the technicians) will be required to report to the Ward nominated employee on each visit. A site induction will be carried out on the first visit. There will be a requirement to sign in and out and work will be authorised by a Ward Site Manager for each and every visit. A nominated Ward employee will liaise with the technicians to ensure safe access to the monitoring locations and co-ordinate liaison between the technicians and Ward operational employees as required.

Sampling locations

The emission points are referenced A1 and A2 on plan in Appendix 2 of the Operating Techniques. This is shown in Figure 1.

Figure 1



Sampling Frequency

Following approval of the proposal, monitoring will commence approx. 3 weeks thereafter, depending on availability of consultants.

Samples will be taken quarterly.

Parameters/Determinants

Parameters / determinants to be monitored are summarised in Table 1.

Table 1 – Parameters/determinants

Emission point	Determinant Q1 Year 1	Determinant Q2 – Q4 Year 1	Determinant Q1 – Q4	Accreditation
A1 & A2	Total Particulate Matter PM ₁₀ & PM _{2.5}	Total Particulate Matter	Total Particulate Matter	MCERTS

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Monitoring Methodology

The monitoring will be carried out in accordance with documented procedures and in accordance with UKAS / MCERTS accreditation, as far as the sampling facilities on the day of testing will allow.

Any deviations from standard methodology will be stated in the final monitoring report. The methodology, standards and accreditation are presented in Table 2.

Table 2 – Methodology, standards and accreditation

Parameter/ Determinant	Standard	Accreditation	Analysis
Gas Flows and Temperature	BS EN 13284 -1	-	N/A
Total Particulate Matter	BS EN 13284 -1	MCERTS/UKAS	CESEI
PM ₁₀ & PM _{2.5}	Laser Diffraction / Optical Microscopy	-	Particle Technology

*Analysis of samples will be carried out at CESEI (UKAS No. 2338) / Particle Technology or sent to sub-contract laboratories where appropriate.

Expected Monitoring deviations

There are no expected deviations.

Employee Training & Responsibility

The monitoring will be undertaken by suitably qualified stack emissions monitoring team (the technicians) who hold all the relevant MCERTS accreditation for the emissions monitoring proposed. Sample teams will be led by a Team Leader with an MCERTS Level II qualification and technical endorsements appropriate to the type of monitoring being carried out.

A Ward employee will be nominated to liaise with the technicians, to ensure the necessary site inductions have been completed, authorisation to work issued, arrange safe access to the monitoring locations etc. and to liaise with the technicians and oversee the monitoring. The nominated employee and other relevant employees (supervisors/ managers) will receive instruction and training in respect of this protocol.

The Site Manager will have overall responsible for ensuring that the technicians undertake monitoring in accordance with the protocol and to nominate the employee to liaise with the technicians and oversee the monitoring.

Sampling Equipment

The sampling equipment will be provided by the technicians

Results

Results will be reported to the Environment Agency on a quarterly basis unless otherwise agreed with the Environment Agency.

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