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STANDARDISATION MANDATE TO CEN FOR MANUAL REFERENCE METHODS FOR THE CALIBRATION OF AUTOMATED MEASUREMENT SYSTEMS FOR CARBON MONOXIDE (CO) EMISSIONS IN STACK.

I. MOTIVATION

Following the environmental protection objectives laid down by Article 130 R of the EC Treaty, the Council has adopted a number of Directives in order to control at Community level air pollution from waste incineration and co-incineration installations:

- Council Directive 89/369/EEC on the prevention of air pollution from new municipal waste incineration plants;
- Council Directive 89/429/EEC on the reduction of air pollution from existing municipal waste incineration plants;
- Council Directive 94/67/EC on the incineration of hazardous waste.

These Directives lay down emission limit values for different pollutants as minimum requirements to be respected by the operators.

Council Directive 94/67/EC on the incineration of hazardous waste and the next Commission Proposal for a Directive on incineration of waste require the availability of standardised analytical measurement methods developed by CEN, for control and compliance purposes related inter alia to the emissions of CO from incineration and co-incineration of waste processes.

CO is a pollutant involved in photochemical pollution. It is also a good indicator of combustion process, in waste incineration plants.

Therefore, it appears that the availability of a standardised reference method, allowing the calibration of on-site automated measurement systems for CO is a necessary condition for the efficient implementation of these Directives, as far as emissions measurements are concerned.

II. DESCRIPTION OF THE MANDATED WORK

1. The Commission entrusts CEN with the following work:

- Establishment of a standardised manual reference method for CO emissions in stack.

This standard is to cover:

- scope;
 - principle of the reference method;
 - apparatus for sampling and analysis;
 - sampling and analysis procedure (including technical requirements, calibration,...);
 - calculations and expression of results;
 - evaluation of the performances of the measurement method
 - conducting of tests, including their assessment and validation;
 - interpretation of the tests;
 - summing up of the comparison and variability tests report(s);
 - annex:
 - methodology to show the equivalency of another method, with actual example(s) and sum-up of test report(s);
 - miscellaneous.
2. The following work is to be performed during the standardisation process in order to keep in line with the regulatory framework.
- Standardised reference methods are to be evaluated during field tests organised for SO₂ and NO_x standardisation on two waste incineration installations and on two specific co-incineration installations (such as cement kilns).
 - The reference method for CO shall be validated according to the requirements laid down in the above mentioned Council Directive and Commission Proposal. It shall allow the calibration of automated measurement systems on the appropriate time basis.
 - Fields tests shall show that 95% confidence interval for standardised reference methods is minimised, and at least smaller than the maximum confidence interval for automated measurement systems, as laid down in the above mentioned Council Directive and Commission Proposal, i.e. 10% for CO emission limit values.
3. The Commission recommends CEN to take into account, as far as possible, existing standards or rules available in these areas at a national or international level.

III. EXECUTION OF THE MANDATE

- 1.** CEN will present the draft standard for CO (prEN) to the Commission before 31 December 2003.
- 2.** The European standards (EN) will be adopted before 30 June 2004.
At this date, the three linguistic versions (French, German, English) will be available as well as the correct titles in other Community languages.
- 3.** Within six months of their adoption, the European standards (EN) will be transposed into national standards and all the different national standards of the Member States will be withdrawn.
- 4.** The Commission reserves the possibility of specifying more precisely, if necessary, the requirements according to the final version of the draft Directive on incineration of waste, once adopted by the Council. The present mandate may be amended by common agreement if that proves to be necessary during the course of the works.
- 5.** CEN will present a report, at least once a year, of the progress of the work carried out according to this mandate.