



**CDM: Response form for request for clarification on Approved Methodologies (version 01.1)**

<i>Date of Meth Panel meeting:</i>	13-17 August 2012
<i>Title and number of request for clarification</i>	Clarification of the requirements for zero verification with an inert gas for the volumetric fraction of N <sub>2</sub> O  AM_CLA_0235

**Summary of the query:**

Please use the space below to summarize the request for clarification on the related approved methodologies.

This query seeks clarification on whether the dry atmospheric air could be used to meet QA/QC requirements of the “Tool to determine the mass flow of a greenhouse gas in a gaseous stream” version 02.0.0.

Project activities that apply the methodology ACM0019 “N<sub>2</sub>O abatement from nitric acid production” requires to use the “Tool to determine the mass flow of a greenhouse gas in a gaseous stream” in order to determine the amount of N<sub>2</sub>O emissions from the project plant, and specifically  $F_{N_2O, tail\ gas, h}$  the mass flow of N<sub>2</sub>O in the gaseous stream of the tail gas. In order to determine  $F_{N_2O, tail\ gas, h}$ , the previously mentioned tool requires under Option C the measurement of the volumetric fraction of greenhouse gas i (N<sub>2</sub>O) in a time interval t on a wet basis,  $v_{i, t, wb}$ . The QA/QC procedures for  $v_{i, t, wb}$  further require the following:

“Calibration should include zero verification with an inert gas (e.g. N<sub>2</sub>) and at least one reading verification with a standard gas (single calibration gas or mixture calibration gas). All calibration gases must have a certificate provided by the manufacturer and must be under their validity period”.

Clarification is requested as to whether dry instrument air, which is dry atmospheric air approximately 78% N<sub>2</sub> and 21% O<sub>2</sub>, can be used as the “inert gas” to be utilized for zero verification under the calibration requirement.

**Recommendation by the Meth Panel:**

Please use the space below to provide amendments /changes (in your expert view, if necessary).

Not applicable.

**Answer to authors of the request for clarification by the Meth Panel :**

Please use the space below to provide an answer to the authors of the above query

The Meth Panel clarifies that for the project activities that apply the “Tool to determine the mass flow of a greenhouse gas in a gaseous stream”, zero verification requested by QA/QC procedures for the parameter  $v_{i, t, wb}$  (Volumetric fraction of greenhouse gas i in a time interval t on a wet basis) cannot be performed with dry instrument air, but that it can be performed with synthetic air that is usually required by the analyzer manufacturer for these situations.

Signed by the Chair, Mr. Thomas Bernheim

Date: 17/08/2012

Signed by the Vice-Chair, Mr. Hugh Sealy

Date: 17/08/2012

Information to be completed by the secretariat	
F-CDM-AM	AM_CLA_0235
Name of the authors of the query:	TÜV NORD CERT GmbH
Date when the form was received at UNFCCC secretariat	17 August 2012
Date of transmission to the EB	17 August 2012
Date of posting in the UNFCCC CDM web site	17 August 2012