



**Approved baseline and monitoring methodology /
methodological tool clarification response form
(Version 02.0)**

INFORMATION TO BE COMPLETED BY THE SECRETARIAT OR PANEL / WG

Date and number of Panel / WG meeting:	15 – 19 June 2015 / MP 67
Title/Subject of the request for clarification:	Applicability of methodology for facility revamping of a HNO ₃ production increase
Reference number of the request for clarification:	AM_CLA_0268
Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:	N ₂ O abatement from nitric acid production --- Version 2.0
Fast track or Regular track:	<input type="checkbox"/> Fast track <input checked="" type="checkbox"/> Regular track

Summary of the request for clarification

Original text from PP:

The baseline methodology ACM0019 is applicable to projects in which tertiary N₂O abatement technology is installed in the tail gas leaving the absorption column in the nitric acid plant. To determine the baseline emissions by the N₂O destruction facility, the “case 1; for nitric acid plants that have used AM0028 or AM0034 in the first crediting period” adopted because AM0028 methodology has been applied for the proposed project in the first crediting period.

For renewal of the crediting period, historic emission factor EF_{existing,y} has been applied and approved renewed crediting period. After crediting period renewal, the revamping is scheduled within project boundary. Except tertiary N₂O abatement facility, entire manufacturing facilities will be unchanged since last.

The boundary of the project still will be from the inlet of the Ammonia Oxidation Reactor to the outlet of the stack of the nitric acid plant. The currently separated Installed Selective Catalytic Reduction (SCR) system and N₂O abatement will be integrated.

Due to revamping construction, maximum daily production will be increase by twenty-five percent. No details will be changed regarding specific monitoring plan except tertiary N₂O abatement facility. No effect on baseline parameters that influence calculating historic emission factor (EF_{existing,y}). (Details on monitoring plan, applied technique, monitoring procedure, type of tertiary N₂O abatement facility and so on.) Just input ammonia (NH₃) flow will be increased due to revamping.

Revamped will be available after completion of the revamping and moreover after CDM crediting period. And increased HNO₃ production has happened continually since revamping. Also, the maximum production of nitric acid in year (Design capacity) is fixed in PDD during the crediting period. Therefore, the entire revamping is not intended to increase CER revenue.

In case of the revamp of a tertiary N₂O abatement facility, please clarify whether “case 1; for nitric acid plants that have used AM0028 or AM0034 in the first crediting period” of ACM0019 may still be applicable in this crediting period.

Clarification by the secretariat or Panel / WG

The Meth Panel would like to thank the author for the submission.

The Meth Panel agreed to clarify as follows:

ACM0019 provides two options to calculate baseline emissions:

- Case 1: For nitric acid plants that have used AM0028 or AM0034 in the first crediting period;
- Case 2: For other nitric acid plants

Therefore, CDM project activity should use case 1 as it was using methodology AM0028 or AM0034 during the first crediting period, independently on any change in the production.

Furthermore, methodology ACM0019 allows claiming emission reductions due to increase in production above the design capacity as described in equation 1 of the methodology. In equation 1:

$$BE_y = \left(\frac{\min\{P_{production,y}; P_{product,max}\} \times EF_{existing,y}}{\max\{P_{production,y} - P_{product,max}; 0\} \times EF_{new,y}} \right) \times \frac{(h_y - h_{r,y})}{h_y} \times GWP_{N_2O} \times 10^{-3} \quad \text{Equation (1)}$$

$P_{product,max}$ = Design capacity of nitric acid production during the first crediting period and

$P_{production,y}$ = Nitric acid produced in year y

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Document information

Version	Date	Description
02.0	18 July 2013	Revised to remove the row "Date and signature of the chair and vice chair of Panel/WG (in case of clarification by Panel/WG)"
01.0	4 July 2013	Initial publication. This document supersedes and replaces the following documents: <ul style="list-style-type: none"> • Recommendation Form for Small Scale Methodologies (F-CDM-SSCwg) (Version 01.1) • Recommendation Form for Small Scale A/R Methodologies and Procedures (F-CDM-SSC-AR) (Version 01.1)

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