



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:	04-08 April 2016 / MP 69
Title/Subject of the request for clarification:	Clarification on the survey frequency to determine the baseline emissions
Reference number of the request for clarification:	AM_CLA_0275
Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies:	AM0031 Baseline Methodology for Bus Rapid Transit Projects Version 03.1
Fast track or Regular track:	<input checked="" type="checkbox"/> Fast track <input type="checkbox"/> Regular track

Summary of the request for clarification

Original text from Stakeholder:

The clarification request refers to the following Project Activity:

Project 5618 : BRT Metroplus Medellin, Columbia

(<https://cdm.unfccc.int/Projects/DB/SQS1324991317.69/view>)

The applied version of the methodology (03.1) requires bi-monthly surveys to be undertaken in order to determine the parameter $P_{i,y}$ (Passengers transported by project who would have used transport mode i), as indicated on page 34 of the methodology:

ID number	Data variable	Source of data	Data unit	Measured (m), calculated (c), estimated (e)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/ paper)	Comment
12. $P_{i,y}$	Passengers transported by project who would have used transport mode i	Proprietary	Passengers	c	Bi-monthly	Sample survey	Electronic	

Figure 1. Monitoring table from AM0031 - version 03.1

This requirement is also presented on page 29, when defining the survey principles:



The following survey principles shall be followed:

- The survey must be realized with maximum 5% error margin and a 95% confidence interval. This confidence interval corresponds to the guidelines issued by the EB in its 22nd meeting Annex 2 (EB 22 report Annex 2, D, page 3): “Methodologies employing sampling to derive parameters in estimating emissions reductions shall quantify these parameter uncertainties at the 95% confidence level”;
- The sampling size is determined by the 95% confidence interval and the 5% maximum error margin;
- Sampling must be statistically robust and relevant i.e. the survey has a random distribution and is representative of the persons using the BRT system;
- The methodology to select persons for interviews is based on a systematic random sampling based on the flow of passengers per station per day per hour (i.e., the number of persons to be interviewed randomly per bus station and per hour per day is based on the total flow of passengers per station-day-hour to have a representative sample);
- Only persons over age 12 are interviewed;
- Minimum bi-monthly and preferably monthly surveys are to be realized to avoid any problems due to varying usage dependent on month of use (e.g., vacations);

Figure 2. Survey principles requirements from AM0031 – version 03.1

From versions 4.0.0 onwards, the frequency of the surveys indicated in the monitoring table has been revised from *bi-monthly* to *2 surveys for the 1st crediting period and 1 survey for the 2nd and 3rd periods* as indicated in the monitoring parameters section of AM0031 version 06.0 below (page 37):

Data / Parameter table 14.

Data / Parameter:	$S_{i,y}$
Data unit:	%
Description:	Share of passengers transported by the project who in absence of the latter would have used vehicle category i in year y
Source of data:	Survey conducted by an external survey company
Measurement procedures (if any):	Based on passenger survey
Monitoring frequency:	Fixed crediting period OR first seven years of a renewable crediting period: The year 1 and 4, with the retest survey in year 1 only. Second and third crediting periods of a renewable crediting period: Year 1

Figure 3. Monitoring table from AM0031 - version 06.0

However, the survey principles on version 06.0 remains the one from version 03.1 as indicated on paragraph 98 (f):

AM0031

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Version 06.0

Sectoral scope(s): 07

reductions shall quantify these parameter uncertainties at the 95% confidence level”;

- (b) The sampling size is determined by the 95 per cent confidence interval and the 5 per cent maximum error margin;
- (c) Sampling shall be statistically robust and relevant that is the survey has a random distribution and is representative of the persons using the BRT system;
- (d) The methodology to select persons for interviews is based on a systematic random sampling based on the flow of passengers per station per day per hour (i.e. the number of persons to be interviewed randomly per bus station and per hour per day is based on the total flow of passengers per station-day-hour to have a representative sample);
- (e) Only persons over age 12 are interviewed;
- (f) Minimum bi-monthly and preferably monthly surveys are to be realized to avoid any problems due to varying usage dependent on month of use (e.g. vacations);

Figure 4. Survey principles requirements from AM0031 – version 06.0

Clarifications are required on:

- (i) Whether METROPLUS is allowed to monitor the parameter $P_{i,y}$ (*Passengers transported by project who would have used transport mode i*) following the survey frequency specified on version 06.0 of AM0031, i.e. on years 1 and 4 for the First Crediting Period (with the retest survey in year 1 only); the year 1 for the Second Crediting Period; and the year 1 of the Third Crediting Period (in this case, kindly indicate whether a submission of a post-registration change request would be required in order to revise the monitoring plan or whether the response to the clarification is enough to present to the DOE during the verification process), since the bi-monthly surveys incur on high costs to the project;
- (ii) How to interpret and apply the frequency specified in the “survey principles” sections against the survey frequency indicated in version 06.0 of the monitoring methodology.

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 that the specific monitoring requirements of version 06.0 of the methodology in question cannot be applied to the project while it retains version 03.1, a post registration change request would need to be submitted to use the current version of the methodology i.e. version 0.6.0 from version 03.1 applied to the project activity.

With regard to parameter ‘Si,y’ in version 06.0, the monitoring frequency indicated in data/parameter table 14 should be followed. The requirement “Minimum bi-monthly and preferably monthly surveys.....” indicated under paragraph 98 (f) of version 06.0 of the methodology is an unintended carryover from the previous version of the methodology that will be corrected during a future revision of the methodology.

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
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)
Decision Class: Regulatory Document Type: Form, Clarification Business Function: Methodology Keywords: applying methodologies and tools		