



CDM: Recommendation Form for Small Scale Methodologies (version 01)
(To be used for presenting questions/proposals/amendments to the simplified methodologies for small-scale CDM project activity categories)

<i>Date of SSC WG meeting:</i>	15–18 March 2011, SSC WG 30
<i>Title/Subject (give a small title or specify the subject of your submission, maximum 200 characters):</i>	Clarification on the applicability of AMS-III.H to wastewater treatment in new anaerobic facility and existing aerobic facility
<i>Indicative methodology to which your submission relates (refer the items of Appendix B of the Simplified Modalities and Procedures), if applicable.</i>	AMS-III.H “Methane recovery in wastewater treatment”
<i>Name of the authors of the query:</i>	Soichiro Miyashita Institution: EJ Business Partners miyashita-so@ej-hds.co.jp

Summary of the query:

Please use the space below to summarize the query related to SSC methodologies/categories SSC Modalities and Procedures provide recommendation/analysis of the SSC WG.

Original text from PP:

INTRODUCTION

This is the waste water treatment and biogas power generation project at a food processing plant. In the current situation, there is an aerobic waste water treatment facility (“Existing Facility”) without gas recovery equipment and treating waste water generated from that food processing plant. The Existing Facility is under overloading because current BOD value of inflow is quite high, around triple of designed BOD value. Since the Existing Facility can not satisfy water quality standard of discharging water in one time cycle, waste water is currently got buck to start position of the treatment and re-treated more than one time until waste water quality after the treatment satisfies the discharging standard.

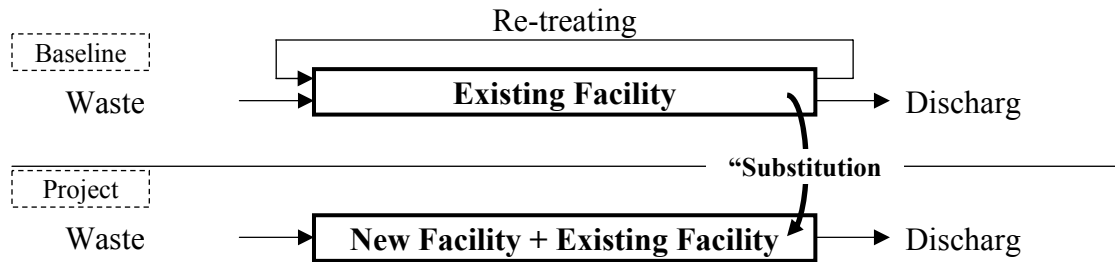
In the project scenario, one new anaerobic waste water treatment facility (“New Facility”) with gas recovery equipment will be installed as the preliminary stage of the Existing Facility. Because the waste water should be further treated by the Existing Facility after throughing the New Facility in order to satisfy the quality standard of discharging waste water.

CLARIFICATION

Based on the methodology AMS-III.H., which of these options as follows is applicable for above situation?

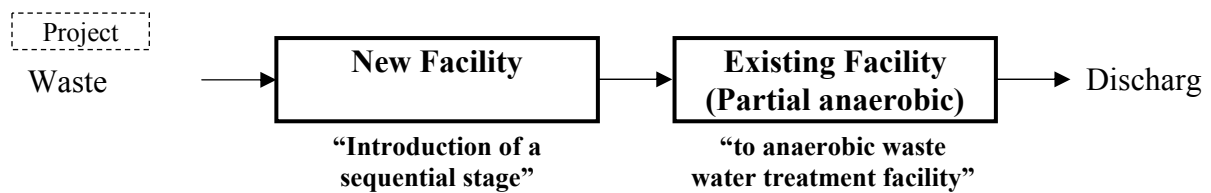
1) The applicability condition 1(a)

That means, the Existing Facility without gas recovery equipments will be “substituted” by the project waste water treatment facility which consists of the New Facility and the Existing Facility. Since the project will not worked on without the Existing Facility because of the satisfaction for discharging quality of waste water, both the New Facility and the Existing Facility are interpreted, as a set facility, to replace the Existing Facility of the baseline scenario.



2) The applicability condition 1(f)

That means if the treatment condition of the Existing Facility is considered as a partial anaerobic because the current treatment condition is under overloading and not complete aerobic, the New Facility will be interpreted to be introduced at a "sequential stage" of the Existing Facility which is partially anaerobic without gas recovery equipment.



3) There are no applicability conditions by the methodology AMS-III.H.-ver.16 for this project situation.

10 March PP further information:

1. The status of the proposed project

The project is under the designing stage and PDD still has not been completed. Therefore, I'm afraid that we have no information about the PDD which can be provided to you at the moment.

2. The existing condition of waste water treatment

In fact, the pre-calculation of GHG emission reduction with regard to AMS-III.H which I provided to you before is based on a thought that the recycling-treatment mechanism is "to prolong the retention time", as you mentioned.

Therefore, please assess whether the AMS-III.H is applied to this project or not, as premises for above.

Recommendation by the SSC WG:

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

Please refer to paragraph 33 of the meeting report of the SSC WG 30
<http://cdm.unfccc.int/Panels/ssc_wg>.

Answer to authors of query by the SSC WG:

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

The small-scale working group of the CDM Executive Board would like to thank the author for the submission.

Based on the information provided by the project proponent, the SSC WG has made the following observations:

- (1) The Existing Facility (as denoted by the PP) is being overloaded although it is originally designed as an aerobic wastewater treatment system. By prolonging the aeration time of the treatment, the effluent can still meet the requirement of relevant environment standard;
- (2) In the proposed project activity, the existing facility will still be used as a sequential treatment step after the new facility (as denoted by the PP), and will be operated under aerobic conditions.

The SSC WG agreed to clarify that Technology/Measure of 1(f) in the AMS-III.H, version 16 is applicable to the proposed project activity, only when it can be proven that the anaerobic condition/pockets exist due to the overloading of the existing facility. In doing so, a measurement campaign can be conducted to measure the dissolved oxygen level (DO) by following the principle of conducting measurement campaign in paragraph 27(b), in AMS-III.H version 16, i.e. the measurements should be undertaken during a period (minimum 10 days) that is representative for the typical operation conditions of the systems and ambient conditions of the site (temperature, etc). If the measured DO level is less than 1 mg/L as specified in paragraph 22 of AMS-III.I version 8 "Avoidance of methane production in wastewater treatment through replacement of anaerobic systems by aerobic systems", the MCF value of 0.3 for poorly managed, overloaded aerobic system in AMS-III.H, version 16, can be chosen.

In case DO is measured on a sample basis, the "General Guidelines for Sampling and Surveys for small-scale CDM Project Activities" shall be followed.

In addition, if the removed COD from the existing facility in the project case will also be counted for emission reductions, the requirement for demonstrating of aerobic conditions of the existing facility in paragraph 22 of AMS-III.I version 8, shall be followed.

Signed by the Chair, Ms. Fatou Gaye

Date: 18/03/2011

Signed by the Vice-Chair, Mr. Peer Stiansen

Date: 18/03/2011

Information to be completed by the secretariat

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