

	CDM: Response form for Request for revision of approved methodologies (version 01.1)
<i>Date of Meth Panel meeting:</i>	21 - 25 June 2010
<i>Title and number of Request for revision</i>	“Co-firing of stabilized biomass from industry with fossil fuel for heat/electricity generation ” AM_REV_0189
Summary of the query: Please use the space below to summarize the request for revision on the related approved methodologies.	
<p>The methodology AM0025 ver 11, “Avoided emissions from organic waste through alternative waste treatment processes” addresses project activities where fresh waste (i.e. the organic matter present in new domestic, and commercial waste/municipal solid waste), originally intended for landfilling, is treated either through one or a combination of the following process: composting, gasification, anaerobic digestion, RDF processing/thermal treatment without incineration, and incineration.</p> <p><u>Project activity</u></p> <p>As described in the CDM-PDD “The project activity involves installation of a state-of-the art dewatering system comprising of a dewatering table and a screw press which brings down the moisture content of the waste sludge, generated from the effluents of the paper machines and rejects of the deinking plants to around 50% by mechanical compression and makes it suitable for firing as a fuel in the boiler along with coal. The steam generated from the boiler is utilized to meet partially the power requirements of the plant and the turbine exhaust steam is being utilized in the paper manufacturing process.</p> <p><u>Request</u></p> <p>The request for revision states that “The methodology does not explicitly mention whether biomass waste from industrial activities (such as sludge from a paper plant) can be considered under the purview of this methodology. The tools referred in the methodology for calculation of methane emission from landfill also does not allow for industrial sludge. Secondly, although the methodology allows for auxiliary firing of fossil fuel along with stabilised biomass it does not allow for a situation where the stabilized biomass is co-fired with fossil fuel, the fossil fuel being the main fuel, in the boiler.</p> <ol style="list-style-type: none"> 1. The amendment addresses co-firing of industrial stabilized biomass with fossil fuel for generation of heat/electricity. It has been proposed that the fraction of energy generated from stabilized biomass will not exceed 50% of the total fuel fired on an energy basis. Stabilized biomass from industries will include biomass residues that is by-product, residue or waste stream from agriculture, forestry and related industries; e.g. waste sludge generated from the effluent treatment plant of the paper manufacturing process. In case of solid biomass residue, for all the calculations in this methodology, quantity of biomass residue refers to the dry weight of biomass residue. 2. In calculating project emissions, an additional term $PE_{co-firing,y}$ has been introduced to include emissions due to fossil fuel fired in the incinerator/furnace along with biomass. 3. The amendment proposes to use locally available values for fraction of degradable organic carbon (DOC_j) and decay rate for biomass waste (K_j). In absence of locally available values, IPCC default values could be used. 4. The amendment also proposes to monitor emission factor of the fossil fuel used for co-firing separately from that used for other project related activities as suggested by the terms $PE_{fuel, on-site,y}$ in the methodology. This has been done to provide options in case different fossil fuels have been used in the boiler and other project related activities. 	

Recommendation by the Meth Panel:	
(a) Please use the space below to provide amendments /changes (in your expert view, if necessary).	
Not applicable.	
(b) Please use the space below for providing guidance, as per Para 93 of EB25 Report, on what type of projects need to revise the PDD as a consequence of the suggested revision, if the recommendation is to revise the methodology.	
Not applicable.	
Answer to authors of the request for revision by the Meth Panel :	
Please use the space below to provide an answer to the authors of the above query	
<p>The Meth Panel recommends <u>to approve</u> the request for revision with corrections, as presented in the draft revised AM0025 and in the draft revised “Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site” contained in the annex 3 of the Meth Panel’s 44th meeting report.</p> <p>See below detailed response for this request for revision:</p> <ol style="list-style-type: none"> 1. It is recommended to accept this revision. Scenarios 2 in the methodology (P2 and H2) are for cases where the baseline is fossil fuel cogeneration plant (new or existing). Procedures to determine the baseline and also to estimate baseline emissions from cogeneration are present in the methodology. Therefore, the methodology as it stands can be used for such cases (especially if the baseline is dumping of the sludge). However, the threshold value of 50% for the biomass that can be used in the boiler is not justified and not necessary. 2. The procedures provided for including project emissions for the use of fossil fuels during co-firing is adequate, which allows for the use of different fuels other than that used on-site for other purposes. 3. The revision to include DOC and k values for industrial sludge should be included in the “Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site” and not in the methodology directly as the parameters are actually used in the tool. The proposed revision suggests laboratory tests to estimate DOC_j. In case laboratory tests are allowed, then more guidance should be provided. Therefore, it is recommended to accept the revision to the table in the tool to include DOC of 0.09 for industrial sludge as per the 2006 IPCC Guidelines for National Greenhouse Gas Inventories and not to allow for laboratory tests. Moreover, a k value of 0.03 as supported by the report “Calculation Tools for Estimating Greenhouse Gas Emissions from Pulp and Paper Mills/Version 1.1” is considered as a conservative estimate and therefore is recommended to be included in the same tool. 4. This revision can be accepted to allow for separate monitoring of fuel used on-site for other purposes from that used in the boiler for cogeneration. 	
<p>Signed by the Chair, Mr. Lex de Jonge Date: 25/06/2010</p> <p>Signed by the Vice-Chair, Mr. Philip Gwage Date: 25/06/2010</p>	
Information to be completed by the secretariat	
F-CDM-AM	AM_REV_0189
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