CDM: Response form for Request for revision of approved methodologies (version 01.1)

Date of Meth Panel meeting:	26–30 March 2012
Title and number of Request for revision	Revision of ACM0001 to include landfill gas utilization in glass melting furnaces AM_REV_0231

Summary of the query:

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

ACM0001 "flaring or use of landfill gas" is applicable to project activities that capture LFG and then flare it or use it for the captured LFG in any (combination) of the following ways:

(i) Generating electricity;

(ii) Generating heat in a boiler, air heater or kiln (brick firing only); and/or

(iii) Supplying the LFG to consumers through a natural gas distribution network.

The request for revision seeks to broaden the applicability of the current methodology. The request for revision suggests a revision of the methodology to allow claiming emission reductions for utilization of landfill gas in a glass melting furnace.

In glass melting facilities, the fraction of methane destroyed should be equal to 1. Compared to a boiler or air heater, the situation in a glass melting furnace is significantly more in favour of complete methane destruction. Complete combustion of methane depends mainly on three factors:

- Temperature;
- Time (residence time);
- Turbulence.

The situation of glass melting furnaces provide optimal conditions for methane destruction during the combustion of the landfill gas:

- Temperature in furnaces is between 1300ºC and 1550ºC while ignition temperature of methane is 600ºC. The molten glass surface ensures a constant and high temperature within the furnace;
- The residence time is of several seconds (5 to 15 seconds), longer than landfill flares;
- Melting furnace is equipped with several burners. The flames and the meting glass ensure high levels of turbulence inside the furnace;
- In addition, glass melting furnaces are operated with sufficient excess air (typically between 1.05 and 1.12).

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
The Meth Panel recommends approving the request for revision. Operating conditions in glass melting furnace ensure the complete destruction of methane from LFG. Therefore the assigned destruction rate is 1. The draft revised methodology is annexed to the fifty-fifth Meth Panel report.
Signed by the Chair, Mr. Thomas Bernheim Date: 30/03/2012 Signed by the Vice-Chair, Mr. Hugh Sealy Date: 30/03/2012

Information to be completed by the secretariat	
F-CDM-AM	AM_REV_0231
Name of the authors of the query:	SQS
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