



UNFCCC Secretariat
 Martin-Luther-King-Strasse 8
 D-53153 Bonn
 Germany

DET NORSKE VERITAS
 CERTIFICATION AS
 Climate Change Services
 Veritasveien 1
 NO-1322 Høvik
 Norway
 Tel: +47-6757 9900
 Fax: +47-6757 9911
 http://www.dnv.com
 NO 945 748 931 MVA

Att: CDM Executive Board

Your ref.:
 CDM Ref 0868

Our ref.:
 MELH/LT

Date:
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Response to request for review of issuance request for project activity 0868 “No.2 HFC23 Decomposition Project of Zhejiang Juhua Co., Ltd, P. R. China”

Monitoring period 1 January 2008 to 5 April 2008.

Dear Members of the CDM Executive Board,

We refer to the issue raised by the requests for review by three Board members regarding the request of issuance for the monitoring period 1 January 2008 to 5 April 2008 of project activity 0868 “No.2 HFC23 Decomposition Project of Zhejiang Juhua Co., Ltd, P. R. China”. We would like to provide the following initial responses to the issue raised.

Question 1: Clarification is required on how the DOE verified the quantity of HFC23 stored eligible for destruction and HFC23 destruction for this monitoring period in accordance with the Annex 8 of EB39.

DNV Response:

This monitoring period is from 1 January 2008 to 5 April 2008, and it is the third monitoring period for this project. The site visit was performed on 15 and 16 April 2008 based on the project proponent monitoring report dated 7 April 2008. The 39th meeting of the Board was held from 14-16 May 2008. The relevant information about Annex 8 of EB39 was not available at the time of the verification.

In the registered PDD, the methodology used for this project is the approved baseline methodology AM0001 version 04. This 3rd monitoring period is shorter than one year. Therefore, according to the clause 6 in Annex 8 of EB39, the formula in option (a) shall be use to calculate the eligible quantity of HFC23.

$$Q_{HFC,cr,i,j} = MIN \left\{ \begin{array}{l} MIN \left(Q_{HFC22,HIST}; \sum_{n=1}^i Q_{HFC22,n,y} \right) \times MIN \left(w; \frac{\sum_{n=1}^i Q_{HFC23,g,n,y}}{\sum_{n=1}^i Q_{HFC22,n,y}} \right) + Q_{HFC23,co,i,y} \\ \sum_{n=1}^i Q_{HFC23,d,n,y} \end{array} \right\} - \sum_{m=1}^i Q_{HFC23,cr,m,y}$$

Where:

$QHFC23_{,cr,i,y}$ = Quantity of HFC-23 destruction credited in the monitoring period i of year y

$QHFC23_{,y,max}$ = The maximum annual HCFC-22 production that is eligible for crediting as determined and fixed in the registered CDM-PDD

$QHFC22_{,n,y}$ = Quantity of HCFC-22 produced in monitoring period n of year y

$QHFC23_{,co,y}$ = Quantity of HFC-23 stored by the end of year y-1 and eligible for destruction in year y (as defined above)

$QHFC23_{,g,n,y}$ = Quantity of HFC-23 generated in the monitoring period n of year y

$QHFC23_{,d,n,y}$ = Quantity of HFC-23 destroyed in the monitoring period n of year y

$QHFC23_{,cr,m,y}$ = Quantity of HFC-23 destruction credited in the monitoring period m of year y

I = Monitoring period for which issuance of CERs is requested

n = Monitoring periods from the start of the year up to the monitoring period i

m = Monitoring periods of year y that preceded the monitoring period i

DNV has rechecked the data source and the relevant evidences for the input values used in the formula above. This includes a verification of the log sheet and calibration report for this monitoring period. The input value are $QHFC23_{,y,max}$ is 13708.9 MT as determined and fixed in the

registered CDM-PDD, $\sum_{n=1}^3 QHFC22_{,n,y} = 14342.68$ MT, $\sum_{n=1}^3 QHFC23_{,g,n,y} = 449.43443$ MT, $\sum_{n=1}^3 QHFC23_{,d,n,y} = 447.91204$ MT, $QHFC23_{,cr,m,y} = 298.78811$ MT, and $QHFC23_{,co,y} = 0$ MT for this is the first year of crediting period.

The weight w is determined and fixed in the registered CDM-PDD to 3%, and the calculated w for the project is 3.13%. Therefore, the value of 3% is used.

$$Q_{HFC,cr,i,j} = \min \left\{ \frac{\min(13708.9; 14342.68) \times \min(3\%; 3.13\%) + 0}{447.91204} \right\} - 298.78811$$

$$Q_{HFC,cr,i,j} = \min \left\{ \frac{13708.9 \times 3\% + 0}{447.91204} \right\} - 298.78811$$

$$Q_{HFC,cr,i,j} = \min \left\{ \frac{411.267}{447.91204} \right\} - 298.78811$$

$$Q_{HFC,cr,i,j} = 112.47889$$

The calculated value of $QHFC23_{,cr,i,y}$ is 112.47889 MT, which is equivalent the value in the monitoring report, so the quantity of HFC23 is in accordance with the Annex 8 of EB39.

Question 2: The monitoring report page 4 stated that "HFC23 waste gas generated in ... is sent to these three HFC23 buffer tanks, after measured by HFC23 flow meters, and then those HFC23 enter into the incinerator to be decomposed." Further clarification is required on how the quantity of HFC23 supplied to the destruction process was measured.

DNV Response:

This part of the monitoring report - page 4 - does not give a clear description of the equipment,

installation and measurement of HFC23 waste gases. The details for this process are as follow. HFC23 waste gases generated in No.703 and No.4-703 HCFC22 production lines are sent to three HFC23 buffer tanks first, where HFC23 waste gases are measured by flow meters and finally send to the destruction process.

The purpose of the tanks is to buffer HFC23 waste gases generated from No.703 and No.4-703 HCFC22 product lines. When the incinerator is shut down, the HFC23 generated from these HCFC22 product lines would be stored temporarily in these buffer tanks, and be destructed when the incinerator is put into operation again. In normal situation, those buffer tanks are not used to store the HFC23 waste gas.

The flow meters are installed after the buffer tanks and before the destruction process, the quantity of HFC23 is measured using two flow meters in parallel, actually there are 2 groups of meters, each group have 2 meters, one for main use and one for backup, the lower value of these two main meters will be use to calculate the quantity of HFC23. All the flow meters were calibrated every six months and the zero check was conducted every week. Relevant log sheet, calibration report and zero check report were rechecked by reviewed by DNV verification team.

We sincerely hope that the Board find our elaboration on the above satisfactory

Yours faithfully

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Michael Lehmann

Technical Director

Climate Change Services