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Att: CDM Executive Board

Your ref.:
CDM Ref 0249

Our ref.:
LAICK/MLEH

Date:
13 December 2007

Response to request for review Biomass Energy Plant - Lumut (0249)

Dear Members of the CDM Executive Board,

We refer to the requests for review raised by three Board members concerning DNV's request for issuance of CERs for project activity 0249 entitled "Biomass Energy Plant - Lumut", and we would like to provide the following responses to the issues raised by these requests for review.

1. The steam consumption of the chiller was calculated as the difference between closing and opening readings of the meter. However in June-July 2006 the monthly opening reading does not correspond to the closing reading of the previous month. Clarification is required on how DOE has verified the accuracy of this parameter.

DNV Response:

We refer to the response by the project participants which clarifies that the installed steam flow meter was only capable of recording in 6 digits.

It was noted during the site visit that the readings (in unit) captured in the log sheet were different after 13 July 2006. It was satisfactorily explained that the number of digits had to be changed in order to avoid the confusion in the completion of revolution of the metering that was experienced from June to July 2006. The meter readings recorded in the log sheets were cross-checked with the spreadsheet submitted and were found to be in order.

The monthly absorption chiller steam consumption during the period of 1 May 2006 to 13 July 2006 had been counter checked with the data from 13 July 2006 to 31 Dec 2006 (e.g. closing of May 2006 was recorded with 7 digits of 1,646,908 kg, which indicates a completion of one revolution of 999,999 digits during the month. The next month, June 2006 was recorded with 6 digits neglecting the 7th digit from the closing of May 2006. In the month of June the meter completed 2 revolutions and thus the 7th digit has a value of 2. Later in the month of July the 7th digit is removed and the opening value was given as 74,152.

The flow meter was calibrated on 13 July 2006 which was evidenced with the calibration certificate submitted to DNV.

Hence, it was verified that the steam consumption had been correctly recorded and deemed accurate.

2. The PDD stated that 15 t/h of steam will be generated for palm oil refinery process consumption and 3 t/h will be used to provide cooling through a new absorption chiller system. However, the relative steam supply to the chiller during this monitoring period is below the relative steam supply to the refinery. Further clarification is needed.

DNV Response:

We refer to the response to the requests for review submitted by the project participants which clarifies that the absorption chiller steam demand was 2.5t/hour, and rounded to 3t/hour.

The actual steam supply to the process and absorption chiller is dependent on the load of the plant which fluctuates between low and high season. The ratios between the process steam and absorption chiller during the whole monitoring period have been provided for review and show a stable trend except in April 2007 when the chiller was down for maintenance during the period 9 April to 20 April. This was demonstrated during the site visit, and work order for maintenance work has been provided for review. It was confirmed that maintenance work has been carried out by external engineer on the chiller on 21 April 2007.

Hence, it was verified that the relative steam supply to the chiller during the monitoring period had been stable except for the days the chiller was shutdown.

We sincerely hope that the Board accepts our above explanations.

Yours faithfully
for DET NORSKE VERITAS CERTIFICATION AS



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