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TÜV®

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Date  
30.09.2008

### Request for Review

“Waste gases utilisation for Combined Cycle Power Plant in Handan Iron & Steel Group Co., Ltd”  
(1262)

Dear Sir/Madam,

Please find below the response of the project participant (Handan Iron & Steel Group Co., Ltd, Carbon Asset Management Sweden AB) and the TÜV NORD JI/CDM Certification Program to the request for review for the above mentioned project no. 1262.

If you have any questions do not hesitate to contact us.

Yours sincerely,

TÜV NORD JI/CDM Certification Program



Rainer Winter

<b>Request for Review (1-1)</b>	
Issue raised by EB Members / DNA	<i>Clarification is required on the causes of 'some inconsistency was found in the reported data source and section D of monitoring report' (p.18, verification report) and what systematic measures have been taken to avoid this in the subsequent monitoring periods.</i>
Response of project participant	<p>The project applies Digital Control System (DCS) system, which can automatically conduct the data recording and calculating the net electricity generation for every whole month.</p> <p>For the monitoring period less than one whole month, the net power generation has to be calculated manually as per the data recording from DCS.</p> <p>There is an inconsistency for the data of net electricity generation during the period from 15 October 2008 to 31 October 2008 between published monitoring report (27988.972MWh) and final monitoring report (27988.996MWh).</p> <p>The reason is that the project was registered on October 15, 2007, the net electricity generation has to be calculated manually for the period of October 15 ~ 31, 2007 so that a little mistake was made during the manual calculation.</p> <p>For subsequent monitoring periods, in the case of the monitoring period not covering the whole month, if any, at least two monitoring staff will calculate the electricity generation amount to ensure consistency. The internal monitoring manual has been adapted accordingly.</p>
Response of DOE	<p>The inconsistency as raised in CAR 1 in the Verification Report was caused by mistakes in manual calculation of data from on-line monitoring system for the period October 15th – 30th. The verification team detected the inconsistency through cross-checking data in monitoring report with original data records from the on-line monitoring system.</p> <p>In subsequent monitoring periods for similar situation, as stated by the project participant, at least two monitoring staff will record and calculate the electricity so that such inconsistencies can be avoided.</p> <p>If this information is not sufficient to close the request for review, we appoint Mr. Li Yong Jun as our contact person:</p> <p>Mr. Li Yong Jun CDM project manager China Room 11C, East Ocean Centre II, No. 618 Yan An Rd. (E), Huangpu District, Shanghai China 200001 Tel: +86 (0)21 53855353-259 Fax: +86 (0)21 53855369</p>

<b>Request for Review (1-2)</b>	
Issue raised by EB Members /	<i>The DOE shall confirm whether the project is interconnected with steam or heat sources other than the waste gases.</i>

DNA	
Response of project participant	<p>As per the registered PDD and the on-site verification, there is no information showing that there are steam or heat sources other than the waste gases interconnected with the project.</p> <p>During the site visit, both DOE and PP have checked the project construction and were able to verify that.</p>
Response of DOE	<p>The project is not interconnected with steam or heat sources. The only fuel is waste gas. Electricity is generated through combined cycle technology.</p> <p>The gas turbine generator, boiler and steam turbine generator are chosen to match and their capacity fits each other. This has been validated.</p> <p>The steam turbine generator runs only when the gas turbine generator runs. There is no other steam or heat sources used in steam turbine generator other than steam from the WHR boilers. The WHR boilers are not fed with heat sources other than the exhaust gas from gas turbines. This was assessed by visiting the site.</p> <p>If this information is not sufficient to close the request for review, we appoint Mr. Li Yong Jun as our contact person:</p> <p>Mr. Li Yong Jun CDM project manager China Room 11C, East Ocean Centre II, No. 618 Yan An Rd. (E), Huangpu District, Shanghai China 200001 Tel: +86 (0)21 53855353-259 Fax: +86 (0)21 53855369</p>

### Request for Review (1-2)

Issue raised by EB Members / DNA	<p><i>Clarification is required on how the DOE verified: 3.1) the calibration of the energy meters based on the Verification Regulation of Electrical Energy Meters with Electronics (JJG596-1999), as referred to in the monitoring plan, which is not a calibration standard, 3.2) the accuracy of data from the main meters M1 and M2 calibrated by the project entity (p.18 of monitoring report) whilst the monitoring plan requiring this to be done by a 'certified party', 3.3) that accuracy was assured for the data from the energy meters whose calibration certificates were pending.</i></p>
Response of project participant	<p>3.1) According to the registered PDD, the meters shall be calibrated at least once per year by a certified party in accordance with National Regulations (Verification Regulation: Electrical Energy Meters with Electronics JJG596-1999). Applicability of JJG596-1999 is as follows: the regulation is applicable to electrical energy meters with electronics that are newly produced, in operation and/or under repair. The regulation is a national standard for meter calibration.</p> <p>During the site visit, DOE has checked all the calibration reports as well as the certificates authorized to calibration entity and was able to verify that all the calibrations were carried out as per the requirement.</p> <p>3.2) The meters have been calibrated in time and by a certified third party. The calibration</p>

	<p>certificate is dated July 25, 2007 and has been verified by the local auditor. The footnote in the Monitoring report on page 19 has been revised in order to avoid confusion to the following “Whereas the staff of the project entity is responsible for organizing the calibration in a timely manner, calibration itself is carried out by a certified third party”.</p> <p>3.3) During the site visit, the certificates were pending. This does not mean that the calibration was not performed within one year from the last calibration. In fact, the calibration of all 26 meters has been performed in line with the monitoring plan. PP has provided all the calibration certificates to DOE after the site visit. The DOE has checked and verified all the calibration certificates and was able to verify so that on page 21 of the Verification Report for the project, it clearly says “the meter calibration records for M1-M26 are checked Ok”. The CAR is already closed out before requesting for issuance.</p>
<p>Response of DOE</p>	<p>3.1) The Verification Regulation of Electrical Energy Meters with Electronics (JJG596-1999) is indeed a calibration standard. In detail, the JJG standard states the verification regulations of different types of electrical energy meters. The “Verification” procedure as included in the above referenced document describes several steps of checking, testing and calibration. In China, it has been in use as official calibration standard. It is clearly indicated in B.7.2 of registered PDD that “Power meters must be calibrated by certified Party at least once per year in accordance with manufacturer’s recommendations and National Regulations (Verification Regulation of Electrical Energy Meters with Electronics JJG596-1999) for ensuring reliability of the system.” So JJG596-1999 as calibration standard has already been approved in the validation phase and was considered during verification as checked by the verification team.</p> <p>3.2) M1 and M2 are calibrated by an independent certified third party, namely Hebei Electric Power Research Institute. The calibration certificates have been submitted to and checked by the verifiers. Please refer to CAR 2 which is successfully closed out. The Monitoring report has been revised in order to avoid confusion appropriately.</p> <p>3.3) The meter calibration records for M1~M26 have been provided to DOE. CAR 2 has been successfully closed out.</p> <p>If this information is not sufficient to close the request for review, we appoint Mr. Li Yong Jun as our contact person:</p> <p>Mr. Li Yong Jun CDM project manager China Room 11C, East Ocean Centre II, No. 618 Yan An Rd. (E), Huangpu District, Shanghai China 200001 Tel: +86 (0)21 53855353-259 Fax: +86 (0)21 53855369</p>