


|  <b>CDM: Form for submission of requests for deviation prior to submitting request for issuance</b><br><i>(To be used by the DOE for requesting a deviation prior to submitting request for issuance)</i>   |  |
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| <b>Name of the entity (DOE) submitting this form</b>   | DNV  |
| <b>Project Ref./Title of the project activity</b>  | 892: Yangquan Coal Mine Methane (CMM) Utilization for Power Generation Project, Shanxi Province, China |
| <b>Title/subject of deviation</b>  | Power meter with lower accuracy than stated in the PDD and the revised monitoring plan                 |
| <b>Specify the monitoring period for which the request is valid</b>  | 01 Feb 2011 - 31 Jul 2011  |
| <b>Date and signature for the DOE</b>  | 26/12-11 Tonye Folkestad   |
| <b>Please use the space below to describe the deviation and substantiate the reason for requesting a deviation from provisions of registered monitoring plan.</b>  |  |
| <p>The deviation applies to the monitoring period from 1 February 2011 to 31 July 2011 and also applies to subsequent monitoring period until 14 November 2011.</p> <p>The revised monitoring plan approved on 19 June 2009 and the registered PDD, version 5 dated 08 May 2007 specify the accuracy class of the power electricity meters as at least 0.5%. In line with the revised monitoring plan, power electricity meters of class 0.5 accuracy class were installed since the inception of the project. However the power electricity meter in Mei Qi Gong Si power station was replaced on 6 January 2011 (for calibration) by a spare meter with accuracy class of 1.0 (serial number 054174), due to immediate nonavailability of 0.5 accuracy class meter. The replacement of power electricity meter with accuracy class of 1.0 is a deviation from the description provided in the revised monitoring plan and the registered PDD. Hence the deviation requested is to ask for permission for the use of accuracy class 1.0 meter (serial number 054174) for the deviation period starting from its installation until the date of being replaced with qualified power electricity meter (serial number 058348 with accuracy of 0.5), i.e. from 6 January 2011 to 14 November 2011. This deviation is justified as the annual calibration of the used power electricity meter (serial number 054174)</p> <p>indicates the maximum error is 0.08% [1], which is less than the error allowance 0.5% required in the revised monitoring plan and the registered PDD. In line with the registered PDD the calibration frequency is once per year and valid from 4 January 2011 to 3 January 2012, which covers the deviation period from 6 January 2011 to 14 November 2011. Hence, the use of accuracy class 1 meter (serial number 054174) during the deviation period from 6 January 2011 to 14 November 2011 does not have a bearing on the emission reduction calculation</p> <p>[1] Shanxi Yangquan Power Supply Company Electric Energy Metrological Center with the certificate No. (Yang) Faji (2009) 003 by Yangquan Quality and Technical Supervision, Calibration certificate for electricity meter (serial number 054174), dated 4 January 2011 and valid to 3 January 2012.</p> |  |
| <b>Please use the space below to describe and substantiate the assessment of the DOE that the deviation does not require a revision of monitoring plan or the changes from the project activity as described in the registered project design document.</b>  |  |
| <p>The deviation does not require a revision of the monitoring plan as the power electricity meter in Mei Qi Gong Si station with accuracy class of 1.0 (serial number 054174) has been replaced by qualified power electricity meter with accuracy of 0.5 (serial number 058348) on 14 November 2011, which was in accordance with the revised monitoring plan. From the site visit from 29 August to 30 August 2011, DNV confirmed that there was no changes identified from the project activity as described in the registered PDD, version 5 dated 8 May 2007.</p>  |  |
| <b>Please use the space below to describe the impact of the deviation on the estimates of the emissions reductions for the proposed project activity with the use of approved methodology as existing and with the deviation. Please substantiate the estimations with relevant and verifiable data.</b>   |  |
| <p>The project activity deviates from the description provided in the revised monitoring plan approved by CDM EB on 19 June 2009 and the registered PDD, version 5 dated 8 May 2007, due to the replacement of power electricity meter with accuracy class of 1.0 instead of 0.5. The calibration certificate of the used power electricity meter (serial number 054174) with accuracy class of 1.0 indicated the error of 0.08%, which was less than 0.5% required by the revised monitoring plan. Thus, the replacement of power electricity meter does not</p> <p>have any impact on the estimates of the emission reduction.</p>   |  |

Nevertheless, with exception of the period from 6 January 2011 to 31 January 2011, which is part of the previous monitoring period for which CERs have already been issued, the PP decided to use the correction factor 99% (1-1%, accuracy class of the used electricity meter serial number 054174 was 1%) to calculate the net electricity generation exported by Me Qi Gong Si power station of the project activity during this deviation period, in view of the conservativeness. As per the registered PDD, the baseline emissions from the power production by Mei Qi Gong Si power station of the project activity (BEUse,y) during this deviation period (i.e. from 1 February 2011 to 14 November 2011) will be calculated as following:

$$BEUse,y = EFELEC * (99\% * GEN)$$

EFELEC: the grid emission factor of electricity replace by the project activity, 0.899 tCO<sub>2</sub>/MWh ex-ante determined in the registered PDD;

GEN: Net electricity measured by the used electricity meter as Mei Qi Gong Si power station of the project activity (MWh);

99%: the correction factor due to the requested deviation;

In summary, DNV considers the proposed calculation method is appropriate, considering the calibration of the used electricity meter indicated that during the requested deviation period from 6 January 2011 to 31 July 2011 the error of the used meter 0.08% meets the requirement of accuracy 0.5 as specified in the revised monitoring plan and registered PDD.

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| <b>Link to the monitoring report</b>  |
| <a href="https://cdm.unfccc.int/Projects/DB/TUEV-SUED1169658303.93/iProcess/DNV-CUK1313146400.99/view">https://cdm.unfccc.int/Projects/DB/TUEV-SUED1169658303.93/iProcess/DNV-CUK1313146400.99/view</a> |
| <b>If necessary, list attached public files containing relevant information which is not available through the above link</b>   |
| Annex 1: Request for deviation  |